

CARTA DE LLEGADA NORMALIZADA  
VUELO POR INSTRUMENTOS (STAR) RNAV1-OACI

TA 6000

VAR 1°E (2020)

APP 119.105  
TWR 118.105

ARR 121.155 125.250  
126.505 127.700

ALBER2E  
MARTA3E

BISBA2E  
MARTA3Y

BISBA3Y  
MATEX3E

CASPE3E  
MATEX3Y

CASPE3Y  
NEPAL3E

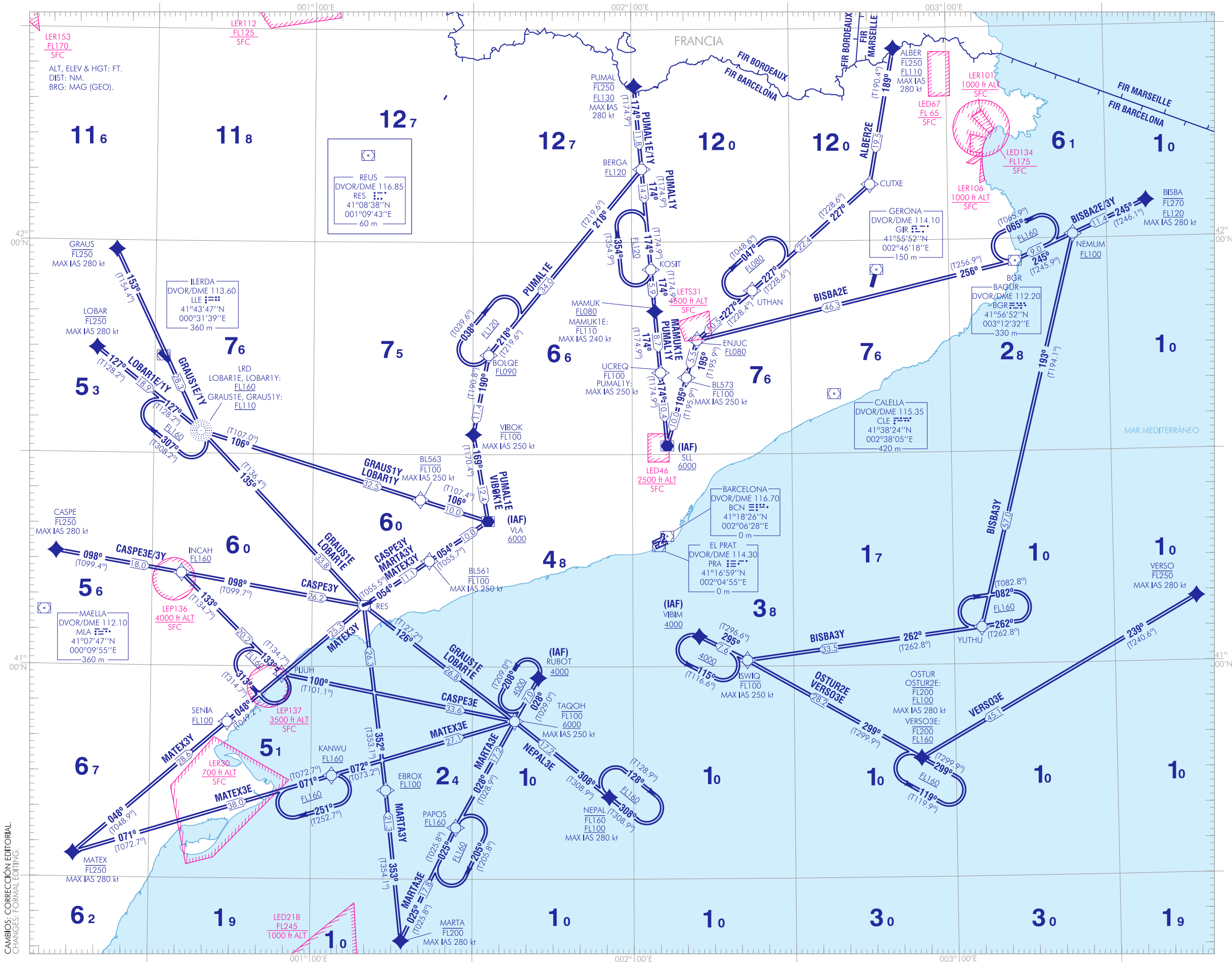
GRAUS1E  
OSTUR2E

GRAUS1Y  
PUMAL1E

LOBAR1E  
PUMAL1Y

LOBAR1Y  
VERSO3E

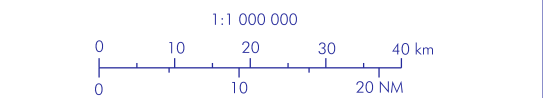
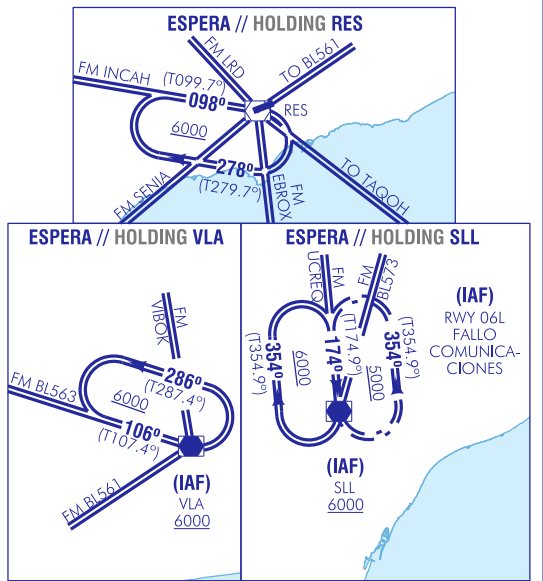
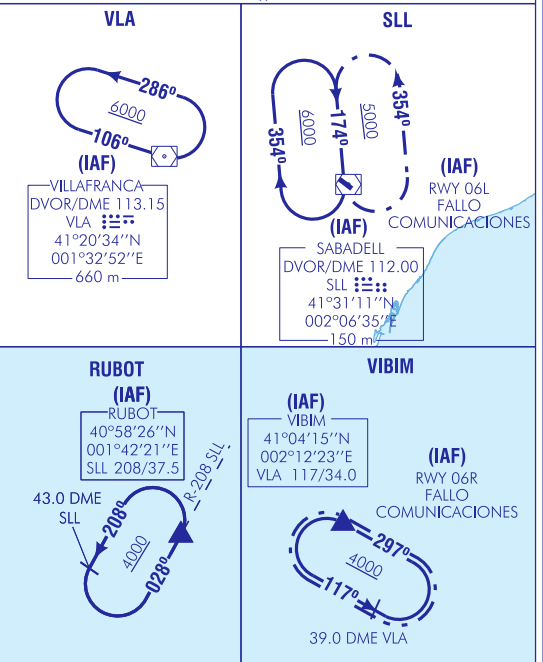
MAMUK1E  
VIBOK1E



NOTAS:  
- RNAV1 REQUERIDA.  
- TFC NO RNAV1: NOTIFICAR A ATC EN PRIMERA COMUNICACIÓN.  
- NOTAS, RESTRICCIONES: VER DESCRIPCIÓN TEXTUAL.  
- ESPERA BGR SUJETA A LA ACTMDAD DE LA LED134.  
- ESPERA PAPOS SUJETA A LA ACTMDAD DE LA LED21B.  
- ESPERAS CONVENCIONALES: VOR REQUERIDO, DME REQUERIDO.  
- SOLO UTILIZABLE EN CASO DE FALLO DE COMUNICACIONES DURANTE LA APROXIMACIÓN FRUSTRADA.

NOTES:  
- RNAV1 REQUIRED.  
- TFC NON RNAV1: NOTIFY ATC OF THIS IN THE FIRST COMMUNICATION.  
- NOTES, RESTRICTIONS: SEE TEXTUAL DESCRIPTION.  
- HOLDING BGR SUBJECT TO LED134 ACTIVITY.  
- HOLDING PAPOS SUBJECT TO LED21B ACTIVITY.  
- CONVENTIONAL HOLDINGS: VOR REQUIRED, DME REQUIRED.  
- ONLY USABLE IN THE CASE OF COMMUNICATION FAILURE DURING THE MISSED APPROACH.

ESPERAS CONVENCIONALES // CONVENTIONAL HOLDINGS



INTENCIONADAMENTE EN BLANCO  
INTENTIONALLY BLANK

## BARCELONA/Josep Tarradellas Barcelona-El Prat AD

| COORDENADAS WAYPOINTS // WAYPOINTS COORDINATES |                               |
|------------------------------------------------|-------------------------------|
| WPT                                            | COORD                         |
| ALBER                                          | 42°27'05.4"N 002°49'55.6"E    |
| BERGA                                          | 42°10'17.5"N 002°01'55.4"E    |
| BGR                                            | 41°56'51.7"N 003°12'32.7"E    |
| BISBA                                          | 42°05'11.0"N 003°37'32.9"E    |
| BL561                                          | 41°14'55.2"N 001°21'54.1"E    |
| BL563                                          | 41°23'33.9"N 001°20'11.6"E    |
| BL573                                          | 41°40'49.4"N 002°10'13.7"E    |
| BOLQE                                          | 41°44'01.0"N 001°32'58.0"E    |
| CASPE                                          | 41°16'06.4"N 000°11'57.8"E    |
| CUTXE                                          | 42°07'55.9"N 002°45'13.5"E    |
| EBROX                                          | 40°42'31.4"N 001°13'54.4"E    |
| ENJUC                                          | 41°46'07.4"N 002°12'14.5"E    |
| GRAUS                                          | 41°58'44.5"N 000°22'35.2"E    |
| INCAH                                          | 41°13'07.1"N 000°35'29.6"E    |
| ISWIQ                                          | 41°00'51.5"N 002°21'21.3"E    |
| KANWU                                          | 40°44'33.3"N 001°03'39.2"E    |
| KOSIT                                          | 41°56'06.7"N 002°03'37.5"E    |
| LOBAR                                          | 41°44'52.8"N 000°19'06.4"E    |
| LRD                                            | 41°33'10.5"N 000°38'52.9"E    |
| MAMUK                                          | 41°50'12.3"N 002°04'19.5"E    |
| MARTA                                          | 40°21'16.6"N 001°16'47.7"E    |
| MATEX                                          | 40°33'23.7"N 000°15'55.7"E    |
| NEMUM                                          | 42°00'33.4"N 003°23'35.5"E    |
| NEPAL                                          | 40°41'33.9"N 001°55'29.4"E    |
| OSTUR                                          | 40°46'51.1"N 002°53'38.3"E    |
| PAPOS                                          | 40°37'16.0"N 001°26'56.6"E    |
| PIJUH                                          | 40°58'55.0"N 000°54'25.0"E    |
| PUMAL                                          | 42°22'00.5"N 002°00'30.5"E    |
| RES                                            | 41°08'37.2"N 001°09'43.1"E    |
| RUBOT                                          | 40°58'26.2"N 001°42'21.4"E    |
| SENIA                                          | 40°52'07.5"N 000°44'19.6"E    |
| SLL                                            | 41°31'12.0"N 002°06'35.1"E    |
| TAQOH                                          | 40°52'19.2"N 001°37'53.0"E    |
| UCREQ                                          | 41°41'31.2"N 002°05'21.7"E    |
| UTHAN                                          | 41°53'06.3"N 002°22'44.1"E    |
| VERSO                                          | 41°09'10.7"N 003°45'25.0"E    |
| VIBIM                                          | 41°04' 15.2"N 002°12' 23.4" E |
| VIBOK                                          | 41°32'48.7"N 001°30'06.7"E    |
| VLA                                            | 41°20'33.4"N 001°32'52.4"E    |
| YUTHU                                          | 41°05'12.6"N 003°05'12.2"E    |

## PISTA 06L/06R

## NOTA APLICABLE A TODAS LAS LLEGADAS:

- RNAV1 requerida
- Para el tramo de aproximación inicial referirse a las cartas de transición a la aproximación final, en caso de uso de aproximaciones ILS o LOC o RNP.

PRECAUCIÓN: No sobrepasar IAF aplicable sin autorización ATC.

## RUNWAY 06L/06R

## NOTE APPLICABLE TO ALL STAR

- RNAV1 required.
- For the initial approach segment, refer to the transition charts for the final approach, if using ILS or LOC or RNP approaches.

WARNING: do not proceed beyond IAF applicable without ATC clearance.

| DESCRIPCIÓN TABULAR DEL PROCEDIMIENTO<br>PROCEDURE TABULAR DESCRIPTION                   |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
|------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------|---------------------------------------|-------------------------------------------|----------------------------|---------------------------------------|--------------------------|-------------------------|-------------------|----------------------------------------------------------|
| Número de serie<br>Serial number                                                         | Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso/ Derrota<br>Course/Track °M(°T) | Variación magnética<br>Magnetic variation | Distancia<br>Distance (NM) | Dirección de viraje<br>Turn direction | Altitud<br>Altitude (ft) | Velocidad<br>Speed (kt) | VPA/TCH<br>(°/ft) | Especificación de navegación<br>Navigation specification |
| ALBER2E RNAV1                                                                            |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | ALBER                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL250<br>+FL110         | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | CUTXE                                                      | -                      | 189 (190.4)                           | -1.2                                      | 19.5                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | UTHAN                                                      | -                      | 227 (228.6)                           | -1.2                                      | 22.4                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | ENJUC                                                      | -                      | 227 (228.4)                           | -1.2                                      | 10.5                       | -                                     | +FL080                   | -                       | -                 | RNAV1                                                    |
| 005                                                                                      | TF                                           | BL573                                                      | -                      | 195 (195.9)                           | -1.2                                      | 5.5                        | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 006                                                                                      | TF                                           | SLL                                                        | -                      | 195 (195.9)                           | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| BISBA2E RNAV1                                                                            |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | BISBA                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL270<br>+FL120         | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | NEMUM                                                      | -                      | 245 (246.1)                           | -1.2                                      | 11.4                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | BGR                                                        | -                      | 245 (245.9)                           | -1.2                                      | 9.0                        | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | ENJUC                                                      | -                      | 256 (256.9)                           | -1.2                                      | 46.3                       | -                                     | +FL080                   | -                       | -                 | RNAV1                                                    |
| 005                                                                                      | TF                                           | BL573                                                      | -                      | 195 (195.9)                           | -1.2                                      | 5.5                        | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 006                                                                                      | TF                                           | SLL                                                        | -                      | 195 (195.9)                           | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| BISBA3Y RNAV1<br>SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE.   |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | BISBA                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL270<br>+FL120         | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | NEMUM                                                      | -                      | 245 (246.1)                           | -1.2                                      | 11.4                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | YUTHU                                                      | -                      | 193 (194.1)                           | -1.2                                      | 57.0                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | ISWIQ                                                      | -                      | 262 (262.8)                           | -1.2                                      | 33.5                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 005                                                                                      | TF                                           | VIBIM                                                      | -                      | 295 (296.6)                           | -1.2                                      | 7.6                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| CASPE3E RNAV1                                                                            |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | CASPE                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | INCAH                                                      | -                      | 098 (099.4)                           | -1.2                                      | 18.0                       | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | PIJUH                                                      | -                      | 133 (134.7)                           | -1.2                                      | 20.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | TAQOH                                                      | -                      | 100 (101.1)                           | -1.2                                      | 33.6                       | -                                     | -FL100<br>+6000          | -250                    | -                 | RNAV1                                                    |
| 005                                                                                      | TF                                           | RUBOT                                                      | -                      | 028 (029.0)                           | -1.2                                      | 7.0                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| CASPE3Y RNAV1<br>SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE.   |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | CASPE                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | INCAH                                                      | -                      | 098 (099.4)                           | -1.2                                      | 18.0                       | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | RES                                                        | -                      | 098 (099.7)                           | -1.2                                      | 26.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | BL561                                                      | -                      | 054 (055.5)                           | -1.2                                      | 11.1                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 005                                                                                      | TF                                           | VLA                                                        | -                      | 054 (055.7)                           | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| GRAUS1E RNAV1                                                                            |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | GRAUS                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | LRD                                                        | -                      | 153 (154.4)                           | -1.2                                      | 28.3                       | -                                     | +FL110                   | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | RES                                                        | -                      | 135 (136.4)                           | -1.2                                      | 33.8                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | TAQOH                                                      | -                      | 126 (127.2)                           | -1.2                                      | 26.8                       | -                                     | -FL100<br>+6000          | -250                    | -                 | RNAV1                                                    |
| 005                                                                                      | TF                                           | RUBOT                                                      | -                      | 028 (029.0)                           | -1.2                                      | 7.0                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| → GRAUS1Y RNAV1<br>SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE. |                                              |                                                            |                        |                                       |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                                      | IF                                           | GRAUS                                                      | -                      | -                                     | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                                      | TF                                           | LRD                                                        | -                      | 153 (154.4)                           | -1.2                                      | 28.3                       | -                                     | +FL110                   | -                       | -                 | RNAV1                                                    |
| 003                                                                                      | TF                                           | BL563                                                      | -                      | 106 (107.0)                           | -1.2                                      | 32.5                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 004                                                                                      | TF                                           | VLA                                                        | -                      | 106 (107.4)                           | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |

| Número de serie<br>Serial number                                        | Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso / Derrota<br>Course/Track<br>°M(°T) | Variación magnética<br>Magnetic variation | Distancia<br>Distance (NM) | Dirección de viraje<br>Turn direction | Altitud<br>Altitude (ft) | Velocidad<br>Speed (kt) | VPA/TCH<br>(°/ft) | Especificación de navegación<br>Navigation specification |
|-------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------|-------------------------------------------|-------------------------------------------|----------------------------|---------------------------------------|--------------------------|-------------------------|-------------------|----------------------------------------------------------|
| <b>LOBAR1E RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | LOBAR                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | LRD                                                        | -                      | 127 (128.2)                               | -1.2                                      | 18.9                       | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | RES                                                        | -                      | 135 (136.4)                               | -1.2                                      | 33.8                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                     | TF                                           | TAQOH                                                      | -                      | 126 (127.2)                               | -1.2                                      | 26.8                       | -                                     | -FL100<br>+6000          | -250                    | -                 | RNAV1                                                    |
| 005                                                                     | TF                                           | RUBOT                                                      | -                      | 028 (029.0)                               | -1.2                                      | 7.0                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| <b>LOBAR1Y RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| → SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE. |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | LOBAR                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | LRD                                                        | -                      | 127 (128.2)                               | -1.2                                      | 18.9                       | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | BL563                                                      | -                      | 106 (107.0)                               | -1.2                                      | 32.5                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 004                                                                     | TF                                           | VLA                                                        | -                      | 106 (107.4)                               | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| <b>MAMUK1E RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | MAMUK                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL110<br>+FL080         | -240                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | UCREQ                                                      | -                      | 174 (174.9)                               | -1.2                                      | 8.7                        | -                                     | -FL100                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | SLL                                                        | -                      | 174 (174.9)                               | -1.2                                      | 10.4                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| <b>MARTA3E RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | MARTA                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL200                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | PAPOS                                                      | -                      | 025 (025.8)                               | -1.2                                      | 17.8                       | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | TAQOH                                                      | -                      | 028 (028.9)                               | -1.2                                      | 17.2                       | -                                     | -FL100<br>+6000          | -250                    | -                 | RNAV1                                                    |
| 004                                                                     | TF                                           | RUBOT                                                      | -                      | 028 (029.0)                               | -1.2                                      | 7.0                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| <b>MARTA3Y RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| → SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE. |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | MARTA                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL200                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | EBROX                                                      | -                      | 353 (354.1)                               | -1.2                                      | 21.3                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | RES                                                        | -                      | 352 (353.1)                               | -1.2                                      | 26.3                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                     | TF                                           | BL561                                                      | -                      | 054 (055.5)                               | -1.2                                      | 11.1                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 005                                                                     | TF                                           | VLA                                                        | -                      | 054 (055.7)                               | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| <b>MATEX3E RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | MATEX                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | KANWU                                                      | -                      | 071 (072.7)                               | -1.2                                      | 38.0                       | -                                     | +FL160                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | TAQOH                                                      | -                      | 072 (073.2)                               | -1.2                                      | 27.1                       | -                                     | -FL100<br>+6000          | -250                    | -                 | RNAV1                                                    |
| 004                                                                     | TF                                           | RUBOT                                                      | -                      | 028 (029.0)                               | -1.2                                      | 7.0                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| <b>MATEX3Y RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| → SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE. |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | MATEX                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | SENIA                                                      | -                      | 048 (048.9)                               | -1.2                                      | 28.6                       | -                                     | +FL100                   | -                       | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | RES                                                        | -                      | 048 (049.2)                               | -1.2                                      | 25.3                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                     | TF                                           | BL561                                                      | -                      | 054 (055.5)                               | -1.2                                      | 11.1                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 005                                                                     | TF                                           | VLA                                                        | -                      | 054 (055.7)                               | -1.2                                      | 10.0                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| <b>NEPAL3E RNAV1</b>                                                    |                                              |                                                            |                        |                                           |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                     | IF                                           | NEPAL                                                      | -                      | -                                         | -1.2                                      | -                          | -                                     | -FL160<br>+FL100         | -280                    | -                 | RNAV1                                                    |
| 002                                                                     | TF                                           | TAQOH                                                      | -                      | 308 (308.9)                               | -1.2                                      | 17.2                       | -                                     | -FL100<br>+6000          | -250                    | -                 | RNAV1                                                    |
| 003                                                                     | TF                                           | RUBOT                                                      | -                      | 028 (029.0)                               | -1.2                                      | 7.0                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |

| Número de serie<br>Serial number                                      | Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso / Derrota<br>Course/Track °M (°T) | Variación magnética<br>Magnetic variation | Distancia<br>Distance (NM) | Dirección de viraje<br>Turn direction | Altitud<br>Altitude (ft) | Velocidad<br>Speed (kt) | VPA/TCH<br>(°/ft) | Especificación de navegación<br>Navigation specification |
|-----------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------|-----------------------------------------|-------------------------------------------|----------------------------|---------------------------------------|--------------------------|-------------------------|-------------------|----------------------------------------------------------|
| <b>OSTUR2E RNAV1</b>                                                  |                                              |                                                            |                        |                                         |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                   | IF                                           | OSTUR                                                      | -                      | -                                       | -1.2                                      | -                          | -                                     | -FL200<br>+FL100         | -280                    | -                 | RNAV1                                                    |
| 002                                                                   | TF                                           | ISWIQ                                                      | -                      | 299 (299.9)                             | -1.2                                      | 28.2                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 003                                                                   | TF                                           | VIBIM                                                      | -                      | 295 (296.6)                             | -1.2                                      | 7.6                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| <b>PUMAL1E RNAV1</b>                                                  |                                              |                                                            |                        |                                         |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                   | IF                                           | PUMAL                                                      | -                      | -                                       | -1.2                                      | -                          | -                                     | -FL250<br>+FL130         | -280                    | -                 | RNAV1                                                    |
| 002                                                                   | TF                                           | BERGA                                                      | -                      | 174 (174.9)                             | -1.2                                      | 11.8                       | -                                     | +FL120                   | -                       | -                 | RNAV1                                                    |
| 003                                                                   | TF                                           | BOLQE                                                      | -                      | 218 (219.6)                             | -1.2                                      | 34.0                       | -                                     | +FL090                   | -                       | -                 | RNAV1                                                    |
| 004                                                                   | TF                                           | VIBOK                                                      | -                      | 190 (190.8)                             | -1.2                                      | 11.4                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 005                                                                   | TF                                           | VLA                                                        | -                      | 169 (170.4)                             | -1.2                                      | 12.4                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| <b>PUMAL1Y RNAV1</b>                                                  |                                              |                                                            |                        |                                         |                                           |                            |                                       |                          |                         |                   |                                                          |
| SOLO USO TÁCTICO. NO PLANIFICABLE. // TACTICAL USE ONLY. UNPLANNABLE. |                                              |                                                            |                        |                                         |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                   | IF                                           | PUMAL                                                      | -                      | -                                       | -1.2                                      | -                          | -                                     | -FL250<br>+FL130         | -280                    | -                 | RNAV1                                                    |
| 002                                                                   | TF                                           | BERGA                                                      | -                      | 174 (174.9)                             | -1.2                                      | 11.8                       | -                                     | +FL120                   | -                       | -                 | RNAV1                                                    |
| 003                                                                   | TF                                           | KOSIT                                                      | -                      | 174 (174.9)                             | -1.2                                      | 14.2                       | -                                     | -                        | -                       | -                 | RNAV1                                                    |
| 004                                                                   | TF                                           | MAMUK                                                      | -                      | 174 (174.9)                             | -1.2                                      | 5.9                        | -                                     | +FL080                   | -                       | -                 | RNAV1                                                    |
| 005                                                                   | TF                                           | UCREQ                                                      | -                      | 174 (174.9)                             | -1.2                                      | 8.7                        | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 006                                                                   | TF                                           | SLL                                                        | -                      | 174 (174.9)                             | -1.2                                      | 10.4                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |
| <b>VERSO3E RNAV1</b>                                                  |                                              |                                                            |                        |                                         |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                   | IF                                           | VERSO                                                      | -                      | -                                       | -1.2                                      | -                          | -                                     | -FL250                   | -280                    | -                 | RNAV1                                                    |
| 002                                                                   | TF                                           | OSTUR                                                      | -                      | 239 (240.6)                             | -1.2                                      | 45.1                       | -                                     | -FL200<br>+FL160         | -                       | -                 | RNAV1                                                    |
| 003                                                                   | TF                                           | ISWIQ                                                      | -                      | 299 (299.9)                             | -1.2                                      | 28.2                       | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 004                                                                   | TF                                           | VIBIM                                                      | -                      | 295 (296.6)                             | -1.2                                      | 7.6                        | -                                     | +4000                    | -                       | -                 | RNAV1                                                    |
| <b>VIBOK1E RNAV1</b>                                                  |                                              |                                                            |                        |                                         |                                           |                            |                                       |                          |                         |                   |                                                          |
| 001                                                                   | IF                                           | VIBOK                                                      | -                      | -                                       | -1.2                                      | -                          | -                                     | -FL100                   | -250                    | -                 | RNAV1                                                    |
| 002                                                                   | TF                                           | VLA                                                        | -                      | 169 (170.4)                             | -1.2                                      | 12.4                       | -                                     | +6000                    | -                       | -                 | RNAV1                                                    |

| CIRCUITOS DE ESPERA // HOLDING PATTERN       |                                                            |                        |                                       |                                           |                                                                   |                                       |                                  |                                  |                         |                                                          |  |
|----------------------------------------------|------------------------------------------------------------|------------------------|---------------------------------------|-------------------------------------------|-------------------------------------------------------------------|---------------------------------------|----------------------------------|----------------------------------|-------------------------|----------------------------------------------------------|--|
| Descriptor de trayectoria<br>Path Terminator | Identificador de punto de recorrido<br>Waypoint identifier | Sobrevuelo<br>Fly-over | Curso/Derrota<br>Course/Track °M (°T) | Variación magnética<br>Magnetic variation | Distancia/<br>Tiempo de alejamiento<br>Distance/<br>Outbound time | Dirección de viraje<br>Turn direction | Altitud MNM<br>MNM altitude (ft) | Altitud MAX<br>MAX altitude (ft) | Velocidad<br>Speed (kt) | Especificación de navegación<br>Navigation specification |  |
| HM                                           | BGR (1)                                                    | -                      | 245 (245.9)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | BOLQE                                                      | -                      | 218 (219.6)                           | -1.2                                      | 1 Min                                                             | R                                     | FL120                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | KANWU                                                      | -                      | 071 (072.7)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | KOSIT                                                      | -                      | 174 (174.9)                           | -1.2                                      | 1 Min                                                             | R                                     | FL120                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | LRD                                                        | -                      | 127 (128.2)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | NEPAL                                                      | -                      | 308 (308.9)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | OSTUR                                                      | -                      | 299 (299.9)                           | -1.2                                      | 1.5 Min                                                           | L                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | PAPOS (2)                                                  | -                      | 025 (025.8)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | PIJUH                                                      | -                      | 133 (134.7)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | RES                                                        | -                      | 098 (099.7)                           | -1.2                                      | 1 Min                                                             | R                                     | 6000                             | -                                | -                       | RNAV1                                                    |  |
| HM                                           | RUBOT                                                      | -                      | 028 (029.0)                           | -1.2                                      | 1 Min                                                             | L                                     | 4000                             | -                                | -                       | RNAV1                                                    |  |
| HM                                           | SLL                                                        | -                      | 174 (174.9)                           | -1.2                                      | 1 Min                                                             | R                                     | 6000                             | -                                | -                       | RNAV1                                                    |  |
| HM                                           | SLL (3)                                                    | -                      | 174 (174.9)                           | -1.2                                      | 1 Min                                                             | L                                     | 5000                             | -                                | -                       | RNAV1                                                    |  |
| HM                                           | UTHAN                                                      | -                      | 227 (228.6)                           | -1.2                                      | 1 Min                                                             | R                                     | FL080                            | -                                | -                       | RNAV1                                                    |  |
| HM                                           | VIBIM                                                      | -                      | 295 (296.6)                           | -1.2                                      | 1 Min                                                             | L                                     | 4000                             | -                                | -                       | RNAV1                                                    |  |
| HM                                           | VLA                                                        | -                      | 106 (107.4)                           | -1.2                                      | 1 Min                                                             | L                                     | 6000                             | -                                | -                       | RNAV1                                                    |  |
| HM                                           | YUTHU                                                      | -                      | 262 (262.8)                           | -1.2                                      | 1.5 Min                                                           | R                                     | FL160                            | -                                | -                       | RNAV1                                                    |  |

(1) ESPERA SUJETA A LA ACTIVIDAD DE LA LED134. // HOLDING SUBJECT TO LED134 ACTIVITY.

(2) ESPERA SUJETA A LA ACTIVIDAD DE LA LED21B. // HOLDING SUBJECT TO LED21B ACTIVITY.

(3) CIRCUITO DE ESPERA PARA EL CASO DE FALLO DE COMUNICACIONES. // HOLDING IN THE CASE OF COMMUNICATION FAILURE.