# CODING TABLE

| IAC RNP U RWY 20L (AR) | | | | | RIO DE JANEIRO / Santos Dumont (SBRJ) | | | | | | | SBRJ_IAC_01H | | 20 MAR 25 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Seq Num** | **Transition Identifier** | **Fly Over** | **Rec Navaid** | **Fix Ident** | **Path and Terminator** | **Course Angle** | **Turn** | **Upper Limit Altitude (FT)** | **Lower Limit Altitude (FT)** | **Speed Limit (KT)** | **Speed Limit Description** | **TM DST (NM)** | **VA (°)** | **Role of the Fix** | **Navigation Specification** |
| 10 | APCH | N/A | N/A | GELUT | IF | N/A | N/A | N/A | @6000 | N/A | N/A | N/A | N/A | IAF | RNP 1.0 |
| 20 | APCH | N | N/A | RJ931 | TF | 88.14° Mag<br>65.24° True | N/A | N/A | @4800 | N/A | N/A | 4.60 | N/A | OTHER | RNP 1.0 |
| 30 | APCH | N | N/A | RJ031 | TF | 88.14° Mag<br>65.24° True | N/A | B4400 | B3500 | N/A | N/A | 4.89 | N/A | OTHER | RNP 1.0 |
| 40 | APCH | N | N/A | RJ072 | TF | 96.83° Mag<br>73.90° True | N/A | N/A | +2500 | N/A | N/A | 3.44 | N/A | IF | RNP 1.0 |
| 10 | FINAL | N/A | N/A | RJ072 | IF | N/A | N/A | N/A | +2500 | N/A | N/A | N/A | N/A | IF | RNP 1.0 |
| 20 | FINAL | N | N/A | RJ073 | TF | 112.66° Mag<br>89.71° True | N/A | N/A | R1770 | N/A | N/A | 3.30 | N/A | FAF | RNP 1.0 |
| 30 | FINAL | N | N/A | RJ904 | TF | 112.55° Mag<br>89.58° True | N/A | N/A | +949 | N/A | N/A | 2.65 | -2.90 | OTHER | RNP 0.1 |
| 40 | FINAL | N/A | N/A | RJ906 | RF | N/A | R | N/A | +357 | 140 | - | 1.92 | -2.90 | FROP | RNP 0.1 |
| N/A | N/A | N/A | N/A | RJ905* | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ARC RADIUS 1.3 | N/A | RF center | N/A |
| 50 | FINAL | Y | N/A | RW20L | TF | 199.55° Mag<br>176.56° True | N/A | N/A | @50 | N/A | N/A | 1.00 | -2.90 | LTP | RNP 0.1 |
| 10 | MA | N | N/A | RJ907 | TF | 199.55° Mag<br>176.56° True | N/A | N/A | +500 | N/A | N/A | 0.71 | N/A | OTHER | RNP 0.15 |
| 20 | MA | N/A | N/A | RJ908 | RF | N/A | L | N/A | N/A | 175 | - | 1.65 | N/A | OTHER | RNP 0.2 |
| N/A | N/A | N/A | N/A | RJ910* | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ARC RADIUS 2.2 | N/A | RF center | N/A |
| 30 | MA | N | N/A | RJ909 | TF | 155.71° Mag<br>132.72° True | N/A | N/A | N/A | N/A | N/A | 3.12 | N/A | OTHER | RNP 0.2 |
| 40 | MA | N | N/A | LOKUL | TF | 163.02° Mag<br>140.01° True | N/A | N/A | N/A | N/A | N/A | 4.27 | N/A | OTHER | RNP 1.0 |
| 50 | MA | N | N/A | RJ249 | RF | N/A | L | N/A | N/A | N/A | N/A | 7.16 | N/A | OTHER | RNP 1.0 |
| N/A | N/A | N/A | N/A | RJ255* | N/A | N/A | N/A | N/A | N/A | N/A | N/A | ARC RADIUS 6.4 | N/A | RF center | N/A |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | MA | Y | N/A | EVRIR | TF | 98.95° Mag<br>75.86° True | N/A | N/A | @5500 | N/A | N/A | 7.36 | N/A | MAHF | RNP 1.0 |
| 70 | MA | Y | N/A | EVRIR | HM | 310.00° Mag<br>287.50° True | L | N/A | @5500 | N/A | N/A | 1.00 min | N/A | MAHF | RNP 1.0 |

* Fictitious point: Only for coding purposes.

| | Latitude / Longitude (WGS84)<br>DD:MM:SS.SS |
|---|---|
| GELUT | S 22:56:54.60 W 43:30:34.80 |
| RJ931 | S 22:55:00.40 W 43:26:05.12 |
| RJ031 | S 22:52:57.60 W 43:21:15.60 |
| RJ072 | S 22:52:02.40 W 43:17:40.20 |
| RJ073 | S 22:52:03.60 W 43:14:06.00 |
| RJ904 | S 22:52:04.21 W 43:11:13.94 |
| RJ906 | S 22:53:16.46 W 43:09:51.45 |
| RJ905 | S 22:53:21.06 W 43:11:14.25 |
| RW20L | S 22:54:16.56 W 43:09:47.56 |
| RJ907 | S 22:54:59.48 W 43:09:44.78 |
| RJ908 | S 22:56:26.95 W 43:09:00.05 |
| RJ910 | S 22:54:51.70 W 43:07:25.04 |
| RJ909 | S 22:58:34.34 W 43:06:31.13 |
| LOKUL | S 23:01:51.42 W 43:03:32.65 |
| RJ249 | S 23:03:57.58 W 42:56:32.31 |
| RJ255 | S 22:57:43.55 W 42:58:13.62 |
| EVRIR | S 23:02:09.60 W 42:48:48.00 |

| COD | Meaning |
|---|---|
| + | AT OR ABOVE |
| - | AT OR BELOW |
| @ | AT |
| R | RECOMMENDED |
| B | BETWEEN |
| = | AS ASSIGNED |
| SDF | STEPDOWN FIX |
| Y | YES |
| N | NO |
| L | LEFT |
| R | RIGHT |
| N/A | NOT APPLICABLE |
| LTP | LANDING THRESHOLD POINT |
| FTP | FICTITIOUS THRESHOLD POINT |
| FROP | FINAL APPROACH ROLLOUT POINT |

# SPECIAL PARAMETERS TABLE

This table contains the parameter values that differ from the standard values established in RNP AR Manual (Doc 9905) and/or PANS-OPS (Doc 8168) and has the objective to assist operators during the approval process by the competent Aeronautical Authority, especially regarding the Flight Operational Safety Assessment. These parameters take into account only design criteria contained in Doc 9905 and Doc 8168. Airworthiness special parameters were not considered for this classification.

## SPECIAL PROCEDURE

### INITIAL APPROACH SEGMENT

| Track | Bank Angle(°) Used / STD | | TWC (KT) Used / STD | | IAS (KT) Used / STD | | Dfrop (NM) Used / STD | | TrD (NM) Used / STD | | Gradient (%) Used / STD | | RNP (NM) Used / STD | | TP Altitude (FT) Used / STD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| **ALL PARAMETERS ARE ACCORDING TO ICAO DOCUMENTS** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

### INTERMEDIATE APPROACH SEGMENT

| Track | Bank Angle(°) Used / STD | | TWC (KT) Used / STD | | IAS (KT) Used / STD | | Dfrop (NM) Used / STD | | TrD (NM) Used / STD | | Gradient (%) Used / STD | | RNP (NM) Used / STD | | TP Altitude (FT) Used / STD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| **ALL PARAMETERS ARE ACCORDING TO ICAO DOCUMENTS** | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

### FINAL APPROACH SEGMENT

| Track | Bank Angle(°) Used / STD | | TWC (KT) Used / STD | | IAS (KT) Used / STD | | Dfrop (NM) Used / STD | | TrD (NM) Used / STD | | Gradient (%) Used / STD | | RNP (NM) Used / STD | | TP Altitude (FT) Used / STD | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RJ073-RJ904** | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.07 | 5.24 | 0.1 | 0.3 | --- | --- |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **RJ904-RJ906** | 22 | 18/20 | 12 | 50 | --- | --- | --- | --- | --- | --- | 5.07 | 5.24 | 0.1 | 0.3 | --- | --- |
| **RJ906-RW20L** | --- | --- | --- | --- | --- | --- | 1.0 | 3.18 | --- | --- | 5.07 | 5.24 | 0.1 | 0.3 | --- | --- |

| **MISSED APPROACH SEGMENT** | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Track** | **Bank Angle(°) Used / STD** | | **TWC (KT) Used / STD** | | **IAS (KT) Used / STD** | | **$D_{MASRNP}$ (NM) Used / STD** | | **TrD (NM) Used / STD** | | **Gradient (%) Used / STD** | | **RNP (NM) Used / STD** | | **TP Altitude (FT) Used / STD** | |
| **RW20L-RJ907** | --- | --- | 30 | 50 | --- | --- | 0.7 | 1.22 | --- | --- | --- | --- | 0.15 | 1.0 | --- | --- |
| **RJ907-RJ908** | 18 | 15 | 30 | 50 | --- | --- | --- | --- | --- | --- | --- | --- | 0.2 | 1.0 | --- | --- |
| **RJ908-RJ909** | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.2 | 1.0 | --- | --- |

| COD | Meaning |
|---|---|
| STD | Value according to ICAO Documents |
| TWC | Tail Wind Component |
| IAS | Indicated Air Speed |
| Dfrop | Distance FROP-THEL |
| FROP | Final Roll-Out Point |
| TrD | Track Distance (Needed to comply turns) |
| TP Altitude | Turning Point Altitude |
| THEL | Threshold elevation |
| $D_{MASRNP}$ | Maximum distance of RNP navigation accuracy (requirement less than 1.0 NM in the missed approach) |