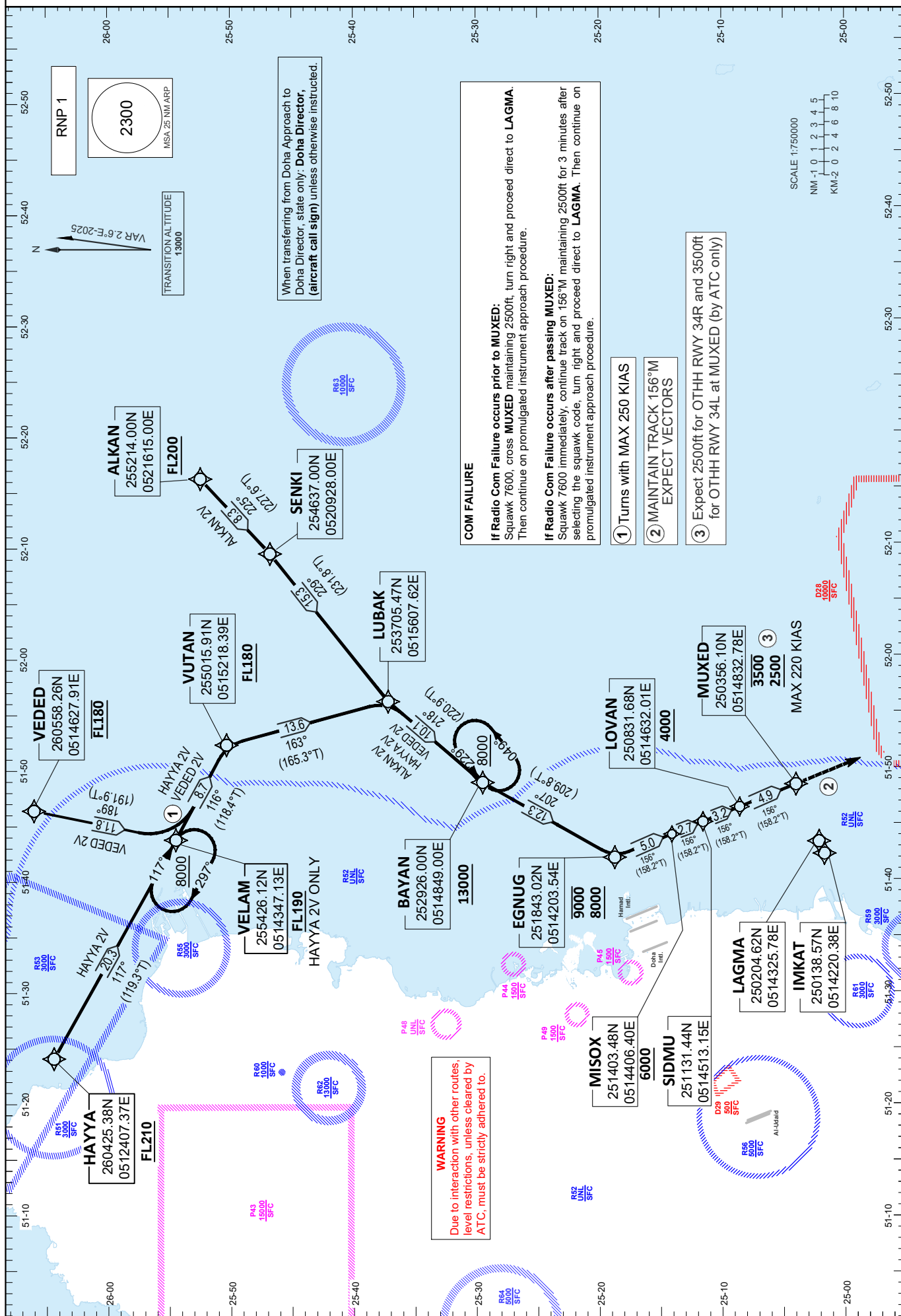


STANDARD ARRIVAL  
CHART - INSTRUMENT  
(STAR) - ICAODIST IN NM  
BEARINGS ARE MAGNETIC  
ALTITUDES AND ELEV IN FEETDOHA RADAR SOUTH  
DOHA RADAR NORTH  
DOHA APP EAST  
DOHA DIRECTOR EAST  
HAMAD ARRIVAL INFORMATION  
HAMAD TWR WEST  
HAMAD TWR EAST120.675 / 119.150  
121.100 / 121.625  
124.775 / 120.600  
119.400 / 121.125  
118.825 / 118.225  
118.025 / 118.225  
118.525 / 118.225DOHA/Hamad Intl. (OTHH)  
RNP RWY 34L/R  
ALKAN 2V / HAYYA 2V / VEDED 2V

STANDARD ARRIVAL  
CHART - INSTRUMENT  
(STAR) - ICAODOHA/Hamad Intl.(OTHH)  
RNP RWY 34L/R  
ALKAN 2V / HAYYA 2V / VEDED 2V

## TABULAR DESCRIPTION

## RNP STAR ALKAN 2V

| Serial Num | Path Descriptor | Waypoint Identifier                                                                | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/TCH(ft) | Navigation Specification |
|------------|-----------------|------------------------------------------------------------------------------------|----------|---------------|-----------------------|---------------|----------------|---------------|------------|----------------|--------------------------|
| 1          | IF              | ALKAN                                                                              | -        | -             | -2.6                  | -             | -              | +FL200        | -          | -              | RNP 1                    |
| 2          | TF              | SENKI                                                                              | -        | 225 (227.6)   | -2.6                  | 8.3           | -              | -             | -          | -              | RNP 1                    |
| 3          | TF              | LUBAK                                                                              | -        | 229 (231.8)   | -2.6                  | 15.3          | -              | -             | -          | -              | RNP 1                    |
| 4          | TF              | BAYAN                                                                              | -        | 218 (220.9)   | -2.6                  | 10.1          | -              | +13000        | -          | -              | RNP 1                    |
| 5          | TF              | EGNUG                                                                              | -        | 207 (209.8)   | -2.6                  | 12.3          | -              | +8000/-9000   | -          | -              | RNP 1                    |
| 6          | TF              | MISOX                                                                              | -        | 156 (158.2)   | -2.6                  | 5.0           | -              | +6000         | -          | -              | RNP 1                    |
| 7          | TF              | SIDMU                                                                              | -        | 156 (158.2)   | -2.6                  | 2.7           | -              | -             | -          | -              | RNP 1                    |
| 8          | TF              | LOVAN                                                                              | -        | 156 (158.2)   | -2.6                  | 3.2           | -              | +4000         | -          | -              | RNP 1                    |
| 9          | TF              | MUXED                                                                              | -        | 156 (158.2)   | -2.6                  | 4.9           | -              | +2500/-3500   | -220       | -              | RNP 1                    |
| 10         | FM              | MUXED                                                                              | -        | 156 (158.2)   | -2.6                  | -             | -              | -             | -220       | -              | RNP 1                    |
| Remarks    |                 | Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only). |          |               |                       |               |                |               |            |                |                          |

## RNP STAR HAYYA 2V

| Serial Num | Path Descriptor | Waypoint Identifier                                                                | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/TCH(ft) | Navigation Specification |
|------------|-----------------|------------------------------------------------------------------------------------|----------|---------------|-----------------------|---------------|----------------|---------------|------------|----------------|--------------------------|
| 1          | IF              | HAYYA                                                                              | -        | -             | -2.6                  | -             | -              | +FL210        | -          | -              | RNP 1                    |
| 2          | TF              | VELAM                                                                              | -        | 117 (119.3)   | -2.6                  | 20.3          | -              | +FL190        | -          | -              | RNP 1                    |
| 3          | TF              | VUTAN                                                                              | -        | 116 (118.4)   | -2.6                  | 8.7           | -              | +FL180        | -          | -              | RNP 1                    |
| 4          | TF              | LUBAK                                                                              | -        | 163 (165.3)   | -2.6                  | 13.6          | -              | -             | -          | -              | RNP 1                    |
| 5          | TF              | BAYAN                                                                              | -        | 218 (220.9)   | -2.6                  | 10.1          | -              | +13000        | -          | -              | RNP 1                    |
| 6          | TF              | EGNUG                                                                              | -        | 207 (209.8)   | -2.6                  | 12.3          | -              | +8000/-9000   | -          | -              | RNP 1                    |
| 7          | TF              | MISOX                                                                              | -        | 156 (158.2)   | -2.6                  | 5.0           | -              | +6000         | -          | -              | RNP 1                    |
| 8          | TF              | SIDMU                                                                              | -        | 156 (158.2)   | -2.6                  | 2.7           | -              | -             | -          | -              | RNP 1                    |
| 9          | TF              | LOVAN                                                                              | -        | 156 (158.2)   | -2.6                  | 3.2           | -              | +4000         | -          | -              | RNP 1                    |
| 10         | TF              | MUXED                                                                              | -        | 156 (158.2)   | -2.6                  | 4.9           | -              | +2500/-3500   | -220       | -              | RNP 1                    |
| 11         | FM              | MUXED                                                                              | -        | 156 (158.2)   | -2.6                  | -             | -              | -             | -220       | -              | RNP 1                    |
| Remarks    |                 | Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only). |          |               |                       |               |                |               |            |                |                          |

## RNP STAR VEDED 2V

| Serial Num | Path Descriptor | Waypoint Identifier                                                                | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/TCH(ft) | Navigation Specification |
|------------|-----------------|------------------------------------------------------------------------------------|----------|---------------|-----------------------|---------------|----------------|---------------|------------|----------------|--------------------------|
| 1          | IF              | VEDED                                                                              | -        | -             | -2.6                  | -             | -              | @FL180        | -          | -              | RNP 1                    |
| 2          | TF              | VELAM                                                                              | -        | 189 (191.9)   | -2.6                  | 11.8          | -              | -             | -250       | -              | RNP 1                    |
| 3          | TF              | VUTAN                                                                              | -        | 116 (118.4)   | -2.6                  | 8.7           | -              | +FL180        | -          | -              | RNP 1                    |
| 4          | TF              | LUBAK                                                                              | -        | 163 (165.3)   | -2.6                  | 13.6          | -              | -             | -          | -              | RNP 1                    |
| 5          | TF              | BAYAN                                                                              | -        | 218 (220.9)   | -2.6                  | 10.1          | -              | +13000        | -          | -              | RNP 1                    |
| 6          | TF              | EGNUG                                                                              | -        | 207 (209.8)   | -2.6                  | 12.3          | -              | +8000/-9000   | -          | -              | RNP 1                    |
| 7          | TF              | MISOX                                                                              | -        | 156 (158.2)   | -2.6                  | 5.0           | -              | +6000         | -          | -              | RNP 1                    |
| 8          | TF              | SIDMU                                                                              | -        | 156 (158.2)   | -2.6                  | 2.7           | -              | -             | -          | -              | RNP 1                    |
| 9          | TF              | LOVAN                                                                              | -        | 156 (158.2)   | -2.6                  | 3.2           | -              | +4000         | -          | -              | RNP 1                    |
| 10         | TF              | MUXED                                                                              | -        | 156 (158.2)   | -2.6                  | 4.9           | -              | +2500/-3500   | -220       | -              | RNP 1                    |
| 11         | FM              | MUXED                                                                              | -        | 156 (158.2)   | -2.6                  | -             | -              | -             | -220       | -              | RNP 1                    |
| Remarks    |                 | Expect 2500ft for OTHH RWY 34R and 3500ft for OTHH RWY 34L at MUXED (by ATC only). |          |               |                       |               |                |               |            |                |                          |

## WAYPOINT LIST

| RNP STAR ALKAN 2V / HAYYA 2V / VEDED 2V |                        |
|-----------------------------------------|------------------------|
|                                         |                        |
| Waypoint Identifier                     | Coordinates            |
| ALKAN                                   | 255214.00N 0521615.00E |
| SENKI                                   | 254637.00N 0520928.00E |
| LUBAK                                   | 253705.47N 0515607.62E |
| BAYAN                                   | 252926.00N 0514849.00E |
| EGNUG                                   | 251843.02N 0514203.54E |
| MISOX                                   | 251403.48N 0514406.40E |
| SIDMU                                   | 251131.44N 0514513.15E |
| LOVAN                                   | 250831.68N 0514632.01E |
| MUXED                                   | 250356.10N 0514832.78E |
| HAYYA                                   | 260425.38N 0512407.37E |
| VELAM                                   | 255426.12N 0514347.13E |
| VUTAN                                   | 255015.91N 0515218.39E |
| VEDED                                   | 260558.26N 0514627.91E |

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