

ENR 3.3.2.5 M503**ENR 3.3.2.5 M503****1. 通信导航监视**

M503 航线采用 RNAV2 技术标准，全程雷达和 VHF 覆盖，全程提供雷达管制服务。目前阶段仅支持使用全球导航卫星系统（GNSS）进行位置更新。

2. 航空器及营运人要求

2.1 在 M503 航线上运行的航空器应当获得基于 GNSS 导航的 RNAV2 适航许可及运行批准。航空器营运人必须确保机载设备、人员资质和运行程序等符合该航线的运行要求。

2.2 航空器营运人使用该航线，应当在领航计划报（FPL）第 10 项中填写字母“R”，第 18 项填写补充信息“PBN/C1”或“PBN/C2”，表明航空器机载设备具备 RNAV2（基于 GNSS 导航）运行的能力。

3. 运行要求**3.1 飞行高度使用**

M503 航线使用高度为 8400 米（含）至 12500 米（含）。通常情况下，ATC 仅会批准航空器使用 9200 米（含）以上高度。

3.2 导航能力

航空器在 M503 航线上运行，需使用 GNSS 导航。如果航空器的导航能力无法继续满足该航线运行要求，驾驶员必须及时告知相关空中交通管制单位。

3.3 策略性侧向偏置

3.3.1 航空器在 M503 航线 PONEN 至 LELIM 航段向南运行时，实施向西 6 海里的侧向偏置飞行。

3.3.2 不具备平行偏置功能的航空器，在加入 M503 航线前，驾驶员应主动告知相关空中交通管制单位。

1. CNS Requirements

M503 is a RNAV2 route entirely within radar coverage and VHF coverage. Radar control service is provided along the route. At present, the position updating of the aircraft operating on this air route is provided by GNSS only.

2. Requirements for aircraft and operators

2.1 Operators shall not file flight plans for operations on M503 unless they have obtained the airworthiness and the operational approval of RNAV2 based on GNSS navigation for the aircraft. Operators shall ensure that the on-board equipment, personnel qualification and operational procedures abide by the operational requirements of the route.

2.2 While conducting flight on M503, operators shall insert letter “R” in Item 10 of the Flight Plan (FPL) and supplementary information of “PBN/C1” or “PBN/C2” in Item 18 to indicate the on-board equipment capability of aircraft for RNAV2 (GNSS required) operation.

3. Operational Requirements**3.1 Flight levels usage**

The available flight levels of M503 are between 8400m and 12500m. Normally ATC will only approve the usage of flight levels 9200m or above.

3.2 Navigation capability

GNSS navigation is required for aircraft operating on M503. If aircraft navigation capability is unable to meet the relevant operational requirements of this route, the pilot shall immediately notify the relevant ATC unit.

3.3 Strategic lateral offset

3.3.1 Aircraft shall establish a lateral offset at a distance of 6 nautical miles to the west side of M503 while operating from PONEN to LELIM.

3.3.2 In case of aircraft without parallel offset function, pilot shall inform the relevant ATC unit of this situation before joining M503.

3.3.3 航空器在该航段运行期间如失去平行偏置功能，驾驶员应及时告知相关空中交通管制单位。

3.3.3 If aircraft loses the parallel offset function while operating on the above mentioned route segment, pilot shall immediately inform relevant ATC unit.

3.4 特殊要求

3.4 Special requirements

3.4.1 航空器未经 ATC 许可，不得擅自偏航。

3.4.1 Aircraft is prohibited to initiate any deviation without ATC clearance.

3.4.2 航空器不得向 M503 航线东侧偏航。如遇紧急情况，处置措施应向 ATC 提出申请，以便相关空中交通管制单位进行管制协调。

3.4.2 Aircraft is not allowed to deviate eastwards beyond M503. In an emergency condition, pilot shall present a request to ATC concerned to make a deviation, so the relevant ATC unit could conduct operational coordination accordingly.