

EL422875

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Application required for DoT Mobile Network Aviation Assessment Program (MNAAP) proof of concept. The objective is to evaluate the feasibility, reliability, and operational behavior of current and emerging commercial cellular technologies when integrated into a tri-layer aviation safety and security network.

During Phase 2 cross-country flights originating from Greenville, TX and proceeding either to Alamogordo, NM or Little Rock, AR, pilots will carry a Google Pixel 9 smartphone running the approved General Aviation Application. The application operates passively. This information cannot be adequately simulated; it requires real aircraft, real geographies, and long-range test routes.

To ensure proper connectivity with T-Mobile's network while airborne (FL300), the pilot's device requires frequency authorization in the following bands: n71, n12, B4/n4, B5, n66, n2, n41, and n25.

MNAAP is a tri-layer network consisting of:

- Layer 1 – Satellite to Cell (Global Coverage)

- Layer 2 – PC5 Sidelink (Fail Safe to Layer 1)

- Layer 3 – Terrestrial 4G and 5G (Backbone of MNAAP)

If you have any questions, please contact:

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