



Is Everyone Ready for ADS-B?

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What is NextGen?

- The Next Generation Air Transportation System, or NextGen, is the FAA-led modernization of America's air transportation system to make flying even safer, more efficient, and more predictable
- Communications: Digital data comm (CPDLC, PM-CPDLC)
- Navigation: GPS, PBN, RNAV/GPS LPV approaches
- Surveillance: ADS-B, ADS-C

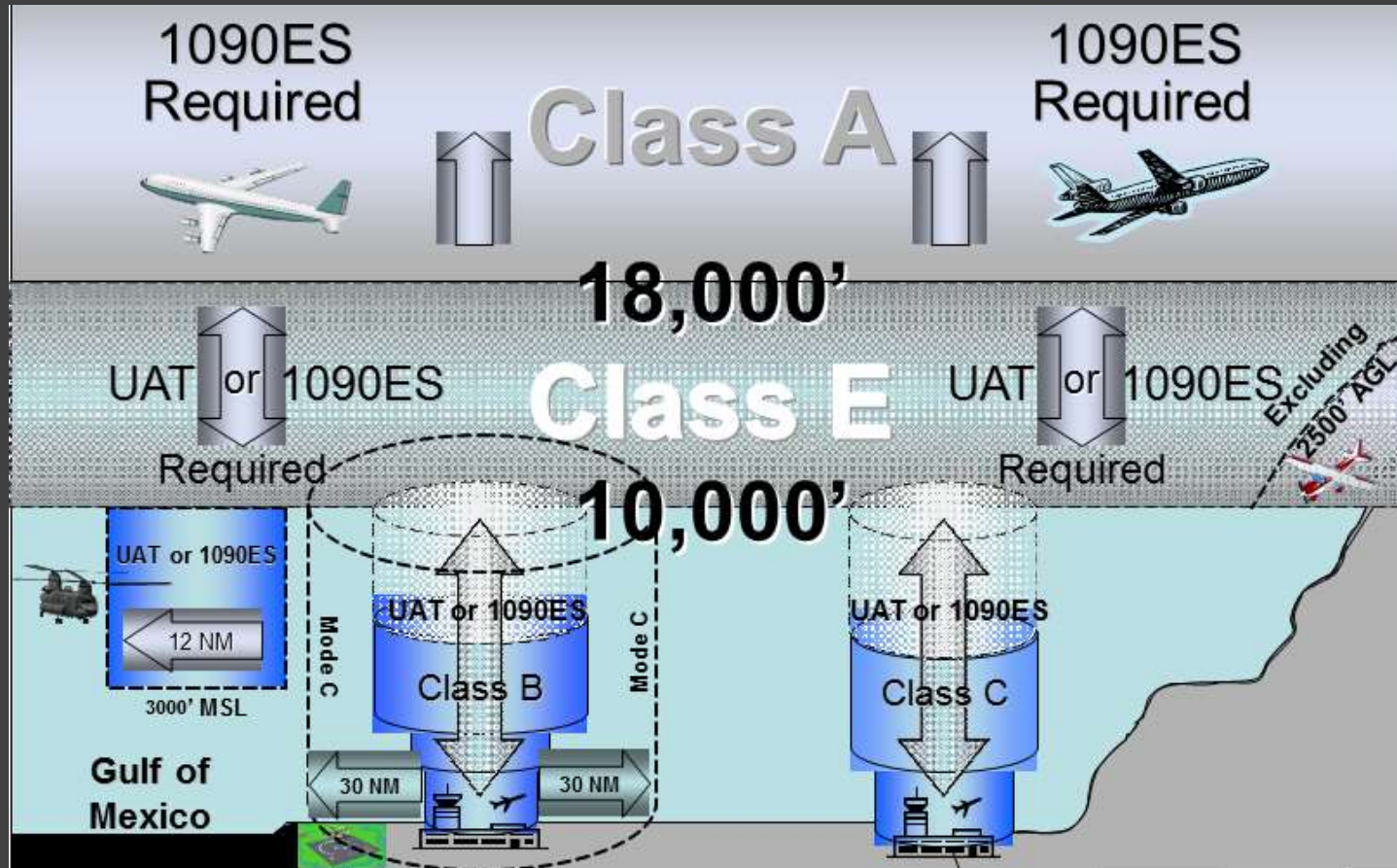
Migrating from Ground-based to Satellite-based Systems

What is ADS-B?

- ADS-B functions with satellite rather than radar technology to more accurately observe and track air traffic. Aircraft equipped with an ADS-B Out transmitter send their position, altitude, heading, ground speed, vertical speed, call sign, and International Civil Aviation Organization
- Pilots of aircraft equipped with a receiver for optional ADS-B In also receive traffic information and can experience several other benefits.

Implementation Mandate Jan 1, 2020 – Only 342 Days Left!

ADS-B Mandate



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Compliant Aircraft Duncan Aviation Update

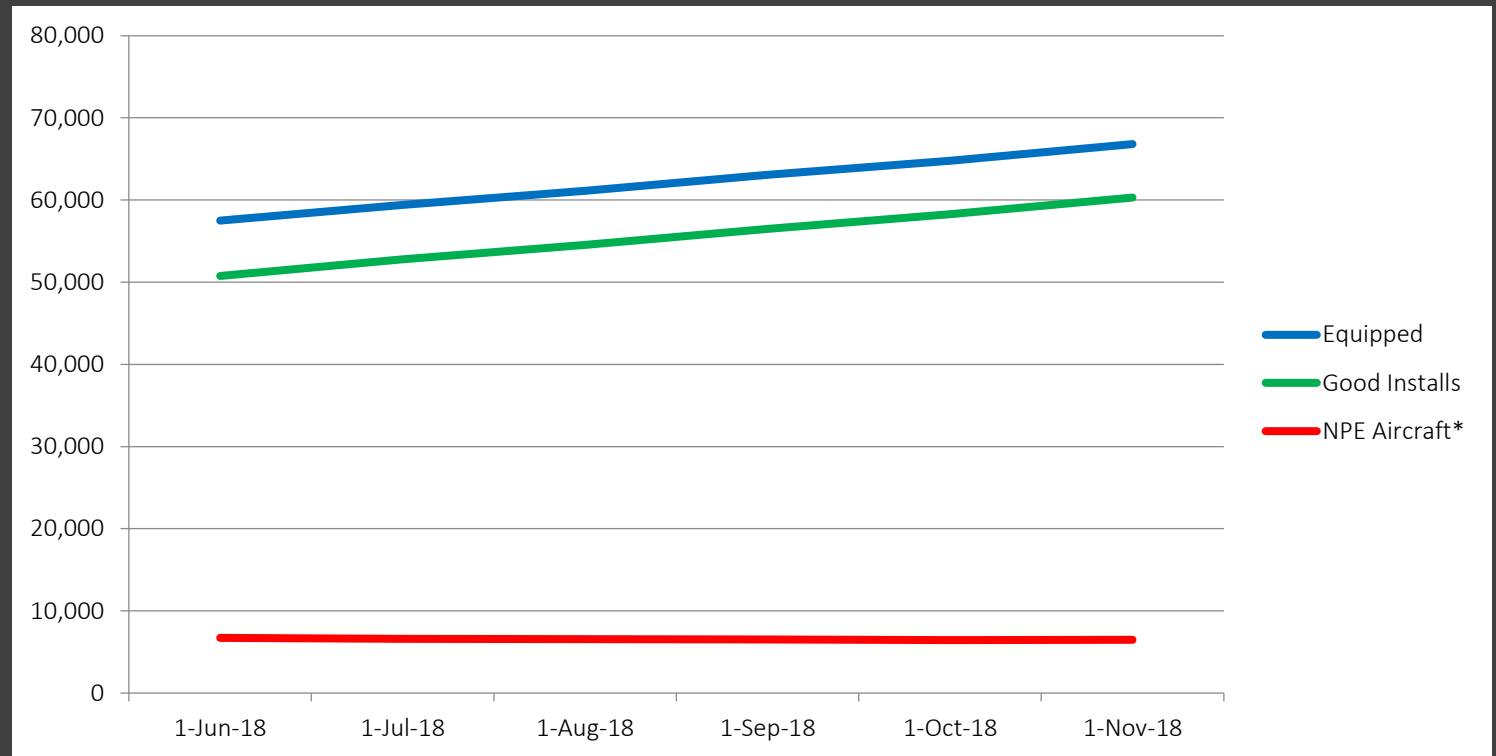
<u>Aircraft Type</u>	<u>Compliant</u>	<u>Total</u>	<u>% Compliant</u>
• Jets	8,166	14,500	56.3%
• Turboprops	3,811	12,149	31.4%
• Helicopters	2,149	13,888	15.5%
• Piston	<u>39,087</u>	<u>204,049</u>	<u>19.2%</u>
Totals	53,213	244,586	21.8%

Source: Duncan Aviation, JETNET

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FAA Current Equipage Levels Update 12/1/18

- 68,743 Equipped (31.2%)
- 62,142 Good Installs (90.4%)
- 6,567 NPE (9.6%)

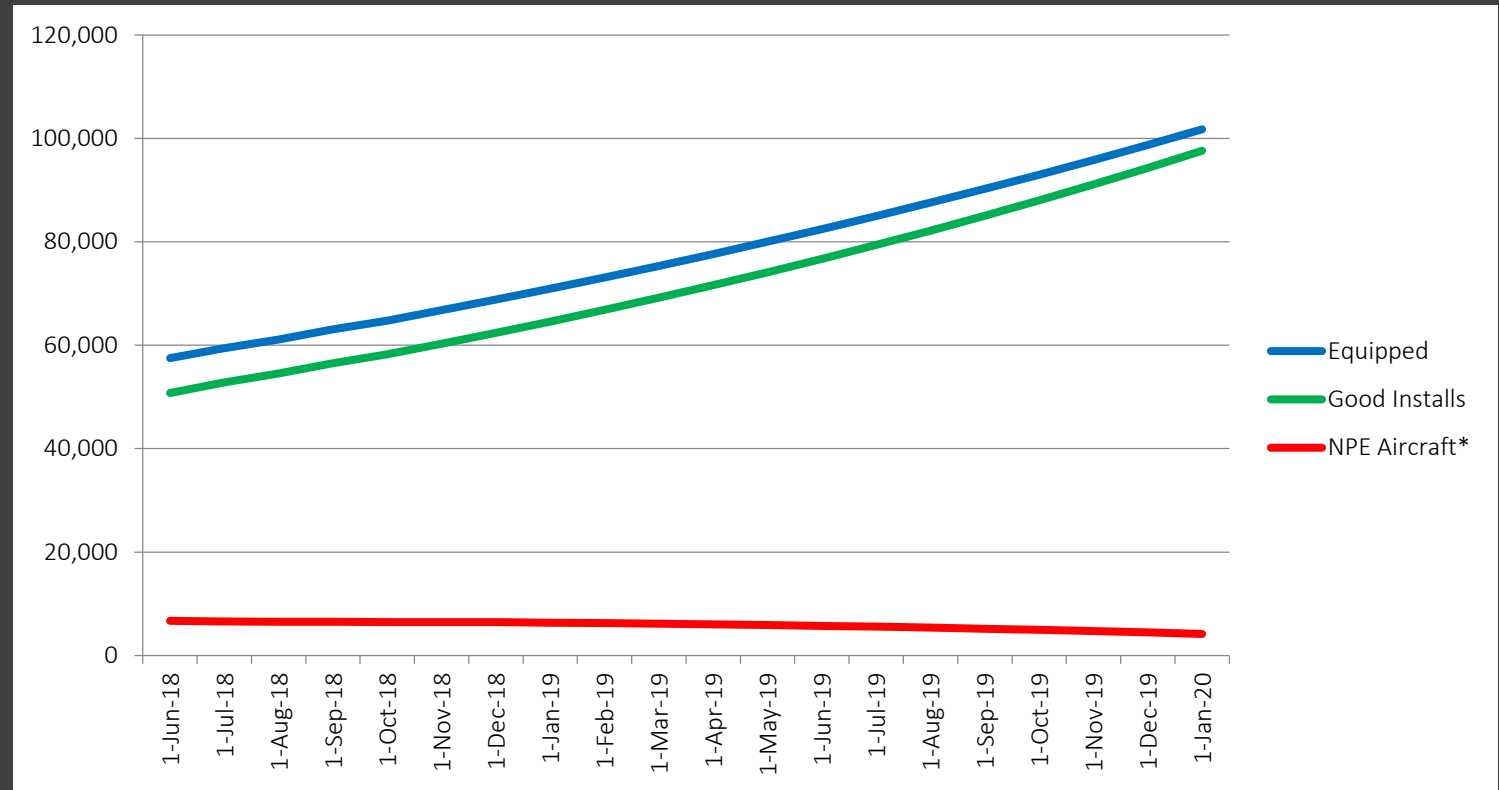


Source: <https://www.faa.gov/nextgen/equipadsb/installation/current equipage levels/>

Only 31% Compliance as of December 1, 2018

Forecast Equipage on January 1, 2010

- 101,604 Equipped (46.2%)
- 97,181 Good Installs (95.9%)
- 4,422 NPE (4.1%)



Source: FAA, AvRisk analysis

Current Implementation Rate only Achieves 46% Compliance

Why Should I Upgrade Now?

1. Deadline awareness is increasing for aircraft operators – ***IGNORED***
2. Operators ~~may~~ face lengthy delays if they wait to the last minute - ***WILL***
3. Backlog crunch at installation facilities – ***NOW A REALITY***
4. Possible component shortages – ***NOW HIGHLY LIKELY***
5. Possibility of more expensive installation prices – ***NOW A CERTAINTY***
6. Non-compliant Aircraft will be grounded January 1, 2020 – ***REALITY!***
7. Significant decrease in residual valuation of non-compliant (and un-airworthy) aircraft - ***BECOMING MORE EVIDENT EVERY DAY***

The Clock is Ticking... Only 342 Days Left!