



## **NextGen and Allegiant Air**



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# **Agenda**

- Current fleet status
- NextGen and Allegiant Air
- ADS-B Out compliance plan
- The 2020 challenge



### **Current Fleet Status**

- MD-80 Fleet
  - Retirement prior to 2020
- Airbus Fleet
  - Oldest aircraft: 700 series MSN
  - Newest aircraft: 7000 series MSN



## **NextGen and Allegiant Air**

- MD-80 Fleet
  - No plans for NextGen incorporation
- Airbus Fleet
  - Primary goal: ADS-B Out
  - Under evaluation:
    - Controller Pilot Data Link Communications CPDLC
    - Streaming weather in flight deck



## **ADS-B Out Compliance Plan**

- Two solutions for ADS-B Out for Airbus fleet
  - MMR equipped aircraft
    - Rockwell Collins STC
  - Non-MMR equipped aircraft
    - Allegiant Air STC



#### **Rockwell Collins Solution**

- Steps to compliance
  - STC efforts
    - Flight test completed
    - Equipment approval and availability in 2019/2020
  - File for FAA exemption 125555
    - Interim solution between 2020 to 2025; precautionary
  - Prior to January 1, 2020:
    - DO-260B compliant transponder installation
    - SBAS/WAAS GPS installation



## **Allegiant Air STC Solution**

- Applicability
  - Aircraft with no MMR installed
    - Approximately 40 aircraft within the United States
    - 2 aircraft in Allegiant fleet
- Equipment installed
  - TSO C129 SA On GPS
- End goal
  - DO-260B compliant transponder
  - TSO-C145c WAAS GPS



## **Allegiant Air STC Status**

- STC project number obtained
- Prototype installation in 2018
  - Will include a flight test
- Aim: STC issuance by end of 2018
- Will be first 2 aircraft in Allegiant fleet to be ADS-B Out compliant prior to 2020
- Flight deck equipment
  - Similar indication system to Rockwell Collins solution
  - Allow for seamless integration for flight crews



## The 2020 Challenge

- Approved solution/equipment availability
- Tight timeline
- Unknown parameters for flight tests
- · Aircraft availability for extended maintenance visits
- Cost



### Thank you