

# Maintenance Plan Evolution

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# Briefing Contents

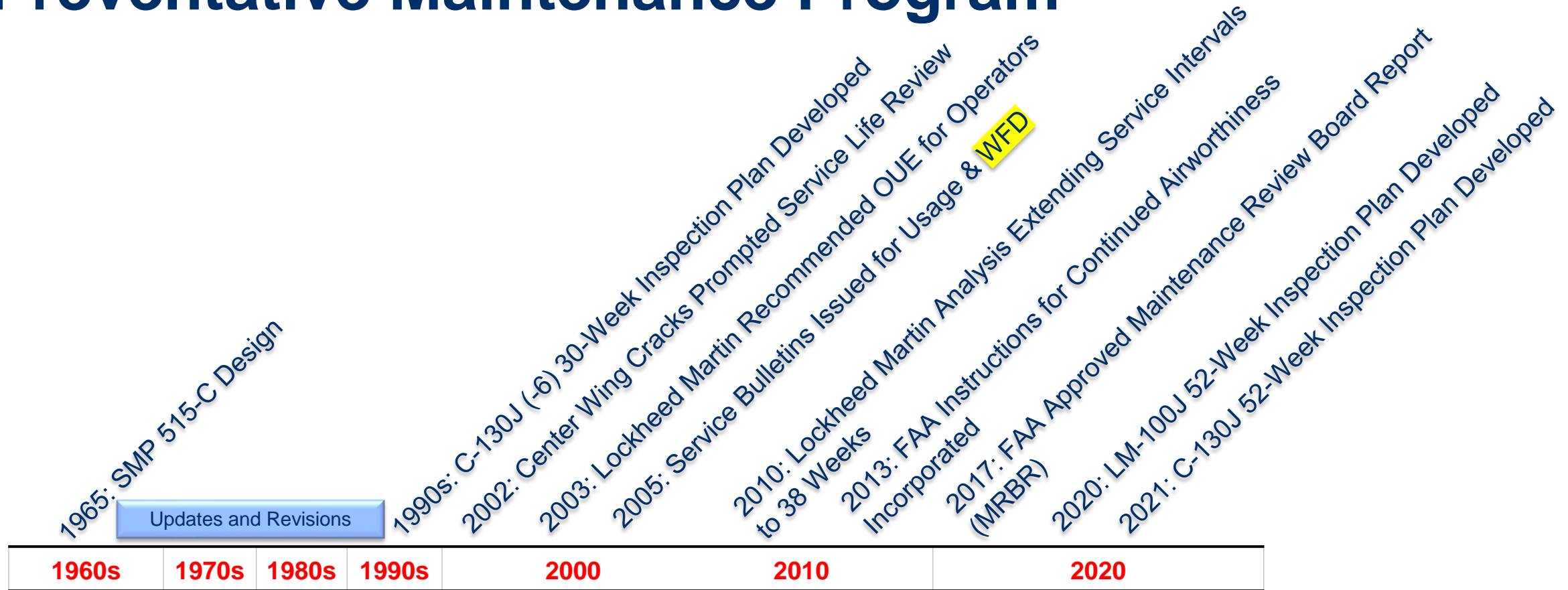


- **History of the C-130/L100/LM100J Inspection Program**
- **Legacy SMP 515-C Inspection Program**
- **LM-100J/L382J Certification**
- **C-130J/LM-100J/L382J Preventative Maintenance Program**
- **38- vs. 52-Week Inspection Program**
- **52-Week Inspection Program Intervals**
- **52-Week Inspection Program Savings**

# History of C-130/L100/LM-100J Preventative Maintenance Program



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**55+ YEARS OF CONTINUED AIRWORTHINESS AND IMPROVEMENTS**

# Legacy SMP 515-C Inspection Program



- **Customers**

- C-130B/E/H/KC-130H/C-130H-30 (military) aircraft
- L-100/382G (commercial) aircraft

- **Types of Programs**

- 38-Week Letter Checks
- Package Letter Checks

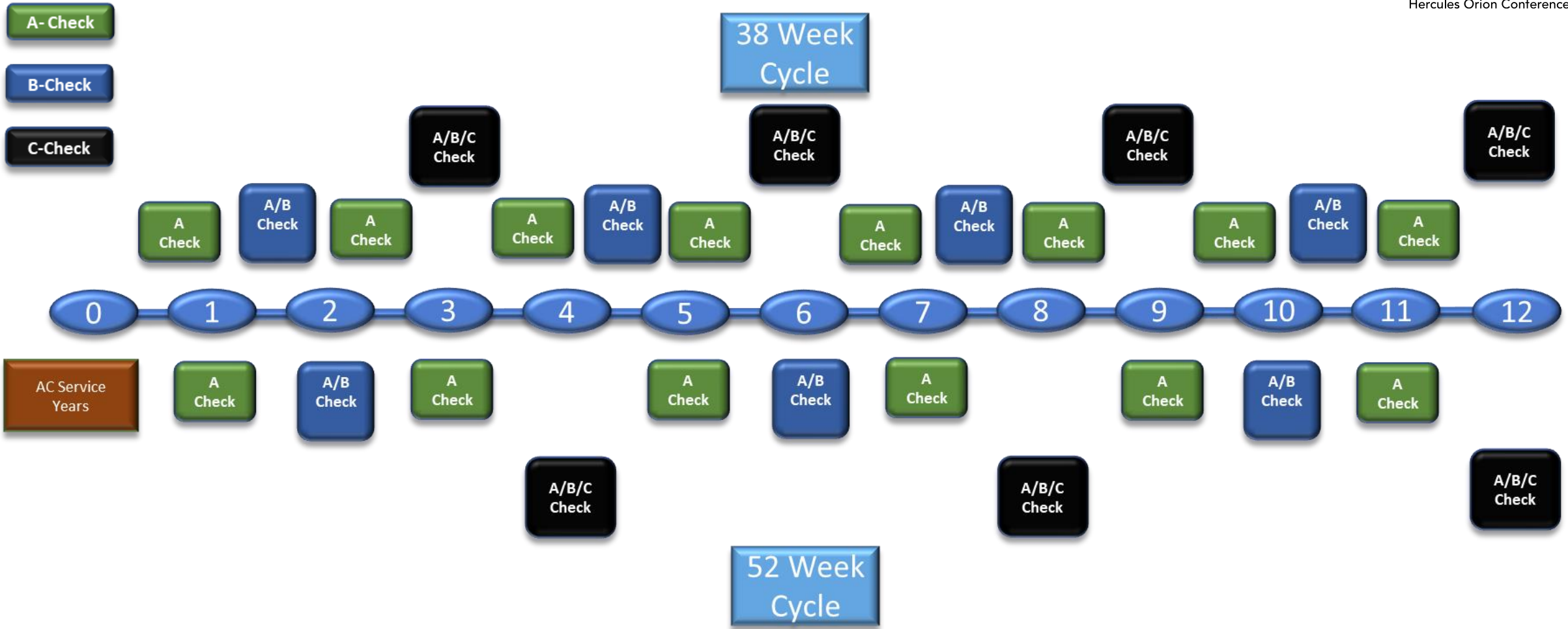
# LM-100J/L382J Certification

- Lockheed Martin started the Maintenance Review Board (MRB) Process March 2015 IAW AC 121-22C
- Participants
  - Lockheed Martin Aeronautics Engineering
  - FAA Representatives
  - L382 Operators
- Maintenance Review Board Report (MRBR) approved by FAA in November 2017
- Maintenance Plan developed from MRBR results completed 2020

# C-130J/LM 100J/L382J Preventative Maintenance Program

- The LM-100J MRBR is based on Maintenance Steering Group (MSG-3) Analysis
- Process includes:
  - System and Powerplant Analysis
  - Structural Analysis
  - Zonal Analysis
    - Enhanced Zonal Analysis
- Leveraged on Common Systems Analysis
  - Lockheed Martin/Vendor/Historical Data

# 38- vs. 52-Week Inspection Program



# 52-Week Inspection Intervals

- A Check = 1 Year
- B Check = 2 Years
- C1 Check = 4 Years
- C2 Check = 8 Years

**NOTE:** The flight hour backstop for the 52-Week Inspection program is no more than 1,000 flight hours in any 12-month flying cycle. No more than 1,500 flight hours in any 24-month flight cycle.



# 52-Week Inspection Program Savings

- Benefits of a 52- vs. 38-week plan over a 12-year period
  - Four less A Checks
  - Two less B Checks
  - One less C Check
- What does this mean to an operator over a 36-year life?
  - Increased Aircraft Availability by 2.2%
  - Reduced Scheduled Maintenance Cost
    - 16% reduction in Maintenance Man Hour (MMH) over a 12-year period
    - 14% reduction in MMH days over a 24-year period
    - 15% reduction in availability days over 36-year period

# Conclusion

- History of the C-130/L100/LM-100J Inspection Program
- Legacy SMP 515-C Inspection Program
- LM-100J/L382J Certification
- C-130J/LM-100J/L382J Preventative Maintenance Program
- 38- vs. 52-Week Inspection Program
- 52-Week Inspection Program Intervals
- 52-Week Inspection Program Savings



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# Questions?

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