



# Aerospace Hardware BOM Lifecycle Management Checklist 2026

## Initial Design & Engineering BOM (EBOM) Verification

Reviewing the structural integrity, CAD integration, and technical specifications of the preliminary Bill of Materials during the engineering phase.

### Engineering Part Number Reference

### EBOM Creation Date

### Design Revision Level

- ☐ Alpha
- ☐ Beta
- ☐ Final

### Verification Checkpoints Completed

- ☐ CAD Model Alignment
- ☐ Weight/Mass Properties Check
- ☐ Material Specification Match
- ☐ Interface Control Document (ICD) Review

### Discrepancy Notes & Engineering Change Requests

Write something...

### Approved Technical Drawings/Blueprints

 Upload File

### Lead Engineer Approval

## Regulatory & Aerospace Standards Compliance

Ensuring all components meet AS9100, FAA, or EASA requirements, including material certifications and safety-critical part verification.

### Primary Regulatory Standard Applicable

- ☐ AS9100
- ☐ FAA Part 21/25
- ☐ EASA Part 21
- ☐ NADCAP
- ☐ Other

### Certificate of Conformance (CoC) Upload

 Upload File

### Compliance Audit Completion Date

Enter date...

### Required Certifications Verified

- ☐ Material Test Report (MTR)
- ☐ REACH/RoHS Compliance
- ☐ ITAR/EAR Export Control Check
- ☐ First Article Inspection (FAI) Report

### Non-Compliance Findings & Corrective Actions

Write something...

### Quality Assurance Officer Approval

## Supplier Quality & Traceability Audit

Verifying the origin, Certificate of Conformance (CoC), and pedigree of all high-reliability aerospace hardware and raw materials.

### Supplier Certification Status

- ☐ AS9100 Certified
- ☐ ISO 9001 Certified
- ☐ Uncertified/Pending

### Certificate of Conformance (CoC) Expiry Date

Enter date...

### Upload Material Test Report (MTR)

 Upload File

### Traceability Documents Verified

- ☐ Batch/Lot Number Certificate
- ☐ Country of Origin Declaration
- ☐ Chemical Analysis Report
- ☐ Destructive Testing Results

### Supplier Batch/Lot Identifier

Write something...

### Non-Conformance Observations

Write something...

### Auditor Verification Signature



## Configuration Management & Revision Control

Tracking changes across different design iterations to prevent the use of obsolete parts and ensure consistency between EBOM and MBOM.

### Current BOM Revision Number

Write something...

### Revision Effective Date

Enter date...

### Change Impact Areas

- ☐ Engineering Drawing
- ☐ Material Specifications
- ☐ Supplier Information
- ☐ Assembly Sequence
- ☐ Compliance Documentation

### Summary of Revision Changes

Write something...

### Revision Change Order (ECO/ECN) Document

 Upload File

### Configuration Manager Approval

## Manufacturing BOM (MBOM) Alignment

Validating that the manufacturing instructions, tooling requirements, and assembly sequences align with the physical production capabilities.

### Production Line Assignment

- ☐ Assembly Line A
- ☐ Assembly Line B
- ☐ Specialized Integration Cell

### Required Tooling & Fixtures

- ☐ Precision Calibrators
- ☐ Jigs & Templates
- ☐ Torque Wrenches
- ☐ Automated Inspection Systems

### Assembly Sequence Verification Note

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### Manufacturing Process Plan (MPP) Document

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### MBOM Validation Completion Date

Enter date...

### Production Engineer Approval

# Procurement & Long-Lead Item Monitoring

Identifying critical components with extended lead times and managing the procurement schedule to prevent production bottlenecks.

## Critical Component Name

Write something...

## Expected Delivery Date

Enter date...

## Lead Time (Days)

Enter a number...

## Risk Level

- ☐ Low
- ☐ Medium
- ☐ High
- ☐ Critical

## Mitigation Actions Taken

- ☐ Alternative Supplier Identified
- ☐ Safety Stock Increased
- ☐ Expedited Shipping Arranged
- ☐ Design Modification Under Review

## Purchase Order or Contract Documentation

 Upload File

# Obsolescence & End-of-Life (EOL) Risk Assessment

Evaluating the lifecycle status of electronic and mechanical components to mitigate the risk of Diminishing Manufacturing Sources and Material Shortages (DMSMS).

## Last Lifecycle Audit Date

Enter date...

## Criticality Level of Identified EOL Parts

- ☐ Low - Non-critical hardware
- ☐ Medium - Impacts assembly speed
- ☐ High - Critical flight component
- ☐ Extreme - Single-source/No alternative

## Identified Risk Factors

- ☐ Manufacturer Discontinuation Notice (PCN)
- ☐ Material Shortage/Scarcity
- ☐ Regulatory/Environmental Restriction (RoHS/REACH)
- ☐ Supplier Insolvency Risk

### Mitigation Plan Details

Write something...

### Manufacturer Discontinuation Documentation

 Upload File

### Compliance Officer Approval

## Cost Management & Value Engineering

Analyzing unit costs, landed costs, and identifying opportunities for cost reduction through alternative part qualification without compromising safety.

### Unit Cost Variance Analysis

Write something...

### Total Estimated BOM Cost

Enter a number...

### Cost Reduction Strategy Applied

- ☐ Alternative Part Substitution
- ☐ Bulk Procurement Discount
- ☐ Supplier Re-negotiation
- ☐ Material Specification Optimization
- ☐ None - Cost Baseline Maintained

### Value Engineering Notes

Write something...

### Cost Breakdown Structure (CBS) Document

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### Financial Controller Approval

## Post-Production & Maintenance BOM (MBOM) Handover

Ensuring the finalized BOM is accurately transitioned to the maintenance and repair teams for aftermarket support and sustainment.

### Handover Completion Date

Enter date...

### Final BOM Revision Status

- ☐ Released
- ☐ Pending Engineering Approval
- ☐ Under Revision

### Required Documentation Packets

- ☐ As-Built Configuration Report
- ☐ Material Traceability Logs
- ☐ Certificate of Conformance (CoC)
- ☐ Maintenance Manual Updates

### Discrepancy Notes & Deviations

Write something...

### Final Approved BOM Master File

 Upload File

Quality Assurance Release Signature

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✔ Finish

🔧 Generate Sample Report