




DEPARTMENT OF DEFENSE  
**UNITED STATES AIR FORCE**

**MIL-HDBK-516C CHANGE NOTICE No. 516CN-1**

<p align="center"><b>AIRWORTHINESS BOARD DETERMINATION                  MIL-HDBK-516C CHANGE NOTICE</b></p>	<p>1. DATE (YYYYMMDD) 20160510</p>
<p>2. ALFCMC/EZ POINT OF CONTACT David Karr, EZSM</p>	<p>3. PHONE (DSN) 785-7450</p>
<p>4. BOARD SECRETARIAT Holli Bone, AFLCMC/EZSC</p>	<p>5. PHONE (DSN) 656-9557</p>
<p>6. SUMMARY OF AIRWORTHINESS BOARD DETERMINATION / MIL-HDBK-516C CHANGE                  (See attached Airworthiness Board charts for more information.)</p> <p>MIL-HDBK-516C Section 4.4.6 Control of Safety-Related Articles</p> <p>Change impacts:</p> <ul style="list-style-type: none"> <li>• New Criterion: Verify that safety-related items (Critical Safety Items, flight critical components, and components containing critical characteristics that impact safety) conform to their approved design.</li> <li>• New Standard: The quality of safety-related items, whether furnished by the prime contractor, supplier, or sustainment organization, is controlled to ensure conformance with design. The manufacturers of the items have instituted manufacturing process controls, inspections, and testing procedures to ensure each safety-related product or part conforms to its approved design.</li> <li>• New Method of Compliance: For safety-related items, initial design conformance is verified by inspection of First Article Inspection reports, First Article Test reports, or other manufacturing records that prove design conformance. Controls for ensuring the quality of safety-related items are verified by inspecting manufacturing process control plans (including work instructions) and inspection and test procedures.</li> <li>• Added Reference: DoD-STD-2101, Classification of Characteristics” defines the term “critical characteristics” in section 3.1.1.</li> </ul>	
<p>13. TAA SIGNATURE</p> <p> 19 May 16</p> <p><b>Jorge F. Gonzalez</b>                  Technical Airworthiness Authority</p>	<p>8. ORGANIZATION</p> <p>AFLCMC/EN-EZ</p>



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# USAF Airworthiness Change Notice Board



## 4.4.6. Control of Safety- Related Items

5 May 2015

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# Change Notice (CN) Overview



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- **Title**: Control of Safety-Related Items
- **Date Proposed**: 23 Jun 2014
- **POC**: David Karr, AFLCMC/EZSM, 255-7450
- **Revision To**: CN Proposal Revises MIL-HDBK-516C

Paragraph(s) Impacted	Impact to C/S/MOC			
	Title	New	Modified	No Change
4.4.6	Criterion	X		
	Standard	X		
	Method of Compliance	X		



# Rationale for Change



- **Rationale:**

- Need to ensure controls are in place for safety-related components at primes, suppliers, or whoever is producing the items (e.g., sustainment organizations)
- Current criteria for safety-related items (Sections 4.4.1 – 4.4.3) are focused only on controlling Key Characteristics (KCs)
  - KC identification is often very limited or not accomplished at all
  - KCs do not cover the overall quality of the part
  - Proposed criterion is more comprehensive



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# Proposed Criterion

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- **Proposed Criterion:**

**Verify that safety-related items (Critical Safety Items, flight critical components, and components containing critical characteristics that impact safety) conform to their approved design.**



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# Proposed Standard

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- **Proposed Standard:**

The quality of safety-related items, whether furnished by the prime contractor, supplier, or sustainment organization, is controlled to ensure conformance with design. The manufacturers of the items have instituted manufacturing process controls, inspections, and testing procedures to ensure each safety-related product or part conforms to its approved design.



# Proposed Method of Compliance



- **Proposed Method of Compliance:**

For safety-related items, initial design conformance is verified by inspection of First Article Inspection reports, First Article Test reports, or other manufacturing records that prove design conformance. Controls for ensuring the quality of safety-related items are verified by inspecting manufacturing process control plans (including work instructions) and inspection and test procedures.



# Proposed References



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- **Proposed Reference:**

Reference: DoD-STD-2101, Classification of Characteristics” defines the term “critical characteristics” in section 3.1.1.





# Specific Comments



- **Organization:** AFLCMC/EZ (Charles Babish)
- **Comment:** Do not limit the scope to supplier products.
- **Date Comment Received:** 20 March 2015
- **Response:** Revised to include safety-related items produced by the prime contractor



# Specific Comments



- **Organization:** AFLCMC/EZS (Terrell Allen)
- **Comment:** Focus on the activity rather than who is performing it. Whoever is producing safety-related items should have these controls in place, whether it is a prime, supplier, or sustainment organization.
- **Date Comment Received:** 26 March 2015
- **Response:** Revised to de-emphasize the organization (prime or supplier) and added a reference to the sustainment organization.



# Recommendation

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Organization	Coordination	Approve	Disapprove	Comment
AFLCMC/EZS	Terrell Allen	X		

- **Recommendation:**

Approve

Disapprove

- **Potential safety/design impact to currently fielded fleet:**

Significant

Insignificant

Checking 'Significant' above will help TAA determine need to inform program offices of urgent safety/design issue

- **Other notes:**