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

<table>
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<tr>
<th>1. DATE (YYYY/MM/DD)</th>
<th>20160510</th>
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<tbody>
<tr>
<td>3. PHONE (DSN)</td>
<td>785-7450</td>
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<tr>
<td>5. PHONE (DSN)</td>
<td>656-9557</td>
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</tbody>
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2. ALFCMC/EZ POINT OF CONTACT
David Karr, EZSM

4. BOARD SECRETARIAT
Holli Bone, ALFCMC/EZSC

6. SUMMARY OF AIRWORTHINESS BOARD DETERMINATION / MIL-HDBK-516C CHANGE
(See attached Airworthiness Board charts for more information.)

MIL-HDBK-516C Section 4.4.6 Control of Safety-Related Articles

Change impacts:

- **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.

- **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.

- **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.

- **Added Reference:** DoD-STD-2101, Classification of Characteristics" defines the term "critical characteristics" in section 3.1.1.

13. TAA SIGNATURE

[X]

Jorge F. Gonzalez
Technical Airworthiness Authority

8. ORGANIZATION

AFLCMC/EN-EZ

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Providing the Warfighters’ Edge

USAF Airworthiness Change Notice Board

4.4.6. Control of Safety-Related Items

5 May 2015

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UNCLASSIFIED
## Change Notice (CN) Overview

**Providing the Warfighters’ Edge**

- **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

### Change Table

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<thead>
<tr>
<th>Paragraph(s) Impacted</th>
<th>Impact to C/S/MOC</th>
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<tbody>
<tr>
<td></td>
<td>Title</td>
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<tr>
<td>4.4.6</td>
<td>Criterion</td>
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<td>Standard</td>
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<td>Method of Compliance</td>
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*C = Criteria  S = Standard  MOC = Method of Compliance*
Rationale for Change

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• **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
Proposed Criterion

- **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.

Markup Key: Current Text [Proposed Deletion] [Proposed Addition]
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.

Markup Key: Current Text [Proposed Deletion] [Proposed addition]
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.

Markup Key: Current Text [Proposed Deletion] [Proposed addition]
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

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- **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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**Recommendation:**

- **Approve:** X
- **Disapprove:** 

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

- **Significant:** 
- **Insignificant:** X

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

**Other notes:**