



Research & Technology

TechAmerica STD-0016 DMSMS Management Plan Industry Standard Update

Boeing Research & Technology
April 29, 2014

Agenda

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- Background
- Document Development and Content
- Plan for Verification Criteria
- Next Steps

Why was an Industry Standard Needed?

The Avionics Process Management Committee (APMC) had no Industry Standard for DMSMS

- GEIA published an Engineering Bulletin (GEB-1) on DMSMS but this is a Best Practices/Guidance document
- APMC had Industry Standards in related subject areas

APMC included DMSMS Management as an element of Parts Management in Industry Standard EIA-4899 “Standard for Preparing an Electronics Component Management Plan”

- EIA-4899 provides little detail on what is needed in the DMSMS Management Process
- Industry has been forced to interpret EIA-4899 resulting in company specific implementation
- Inconsistent flow down of requirements to Supply Chain which hampers Supply Chain’s ability to use a common process for multiple customers

Background

TechAmerica APMC voted to kick-off activity to develop DMSMS Industry Standard in May 2010.

- **Steve Tanemura (Boeing) was asked to lead the team**
- **Joint Industry/Government team drawn from the APMC and the Parts Standardization & Management Committee (PSMC) formed to develop Standard**
 - **PSMC provided opportunity for significant DoD participation**
 - **Opened the possibility of DoD “Adopting” the Standard after release**
- **Target to have the Standard released in a year**

Document Timeline

- **Final draft submitted to APMC for Balloting on March 12, 2011**
- **Document Released by TechAmerica in August 2011**
- **ANSI approval as Industry Standard on January 26, 2012**
- **Adopted by DoD on February 24, 2012**

Standard Development

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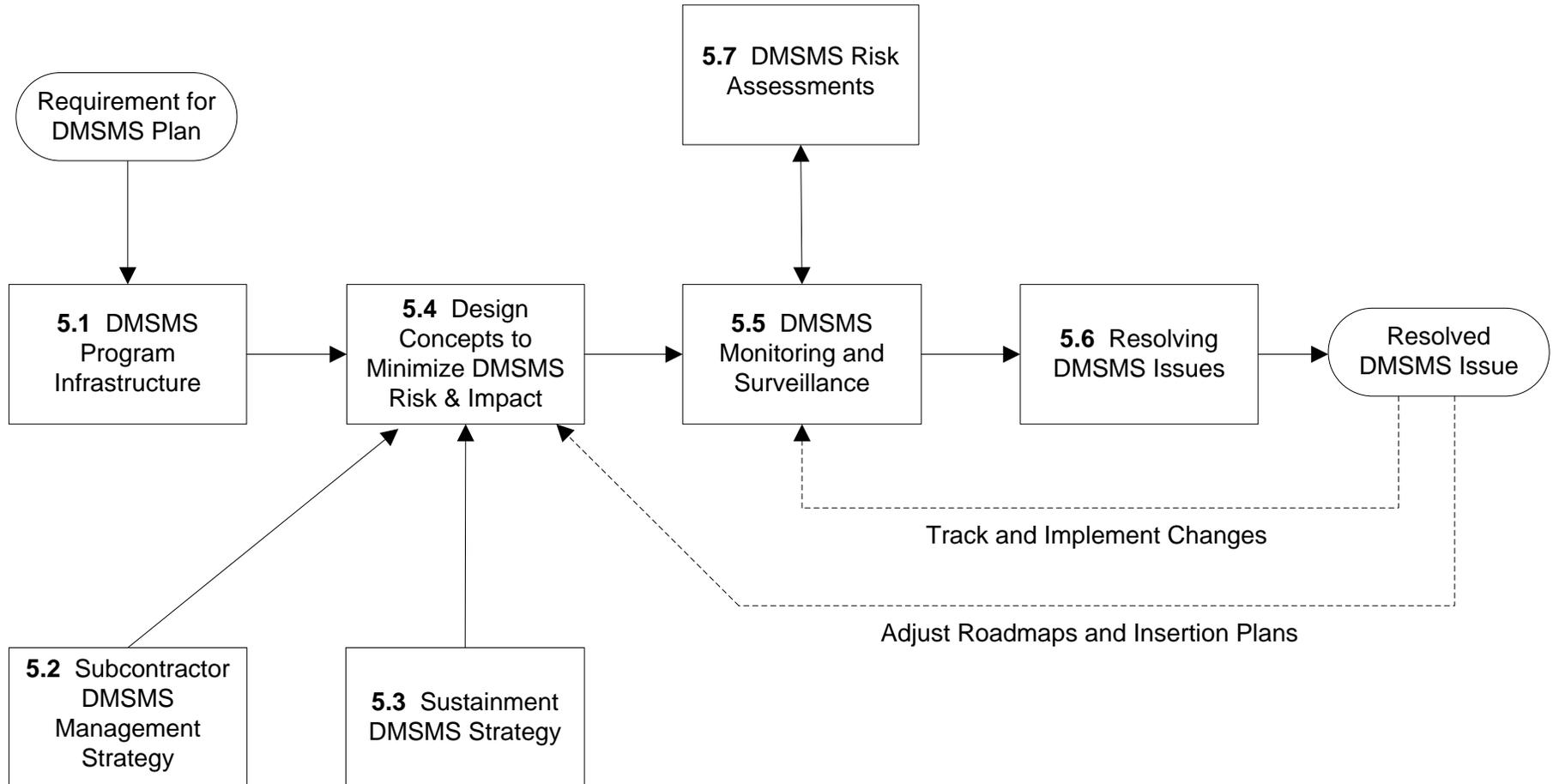
Purpose of the Standard was to define the minimum requirements of a DMSMS Management Plan

- **Describe a proactive DMSMS Process**
- **Life Cycle focus covering Design, Manufacturing and Support**
- **Intended for System Integrators, Original Equipment Manufacturers and Logistic Service Providers of Aerospace and Hi-Rel equipment**
- **Document will not contain detailed “how to” language on implementing specific requirements**
- **Leverage existing best practices documented by Industry**
- **Additional guidance provided in Annexes and also reference other DMSMS Guidance Documents (SD-22, GEB-1)**

Document Content

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Technical Requirements



Verification Criteria

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APMC has also approved a Project to develop Verification Criteria for STD-0016

- **Establish a consistent methodology for reviewing Contractor Plans**
- **APMC would eventually like to see Third Party Certification for DMSMS Management Plans/Processes**
- **Consistent with APMC approach for Lead-free and Counterfeit Parts**

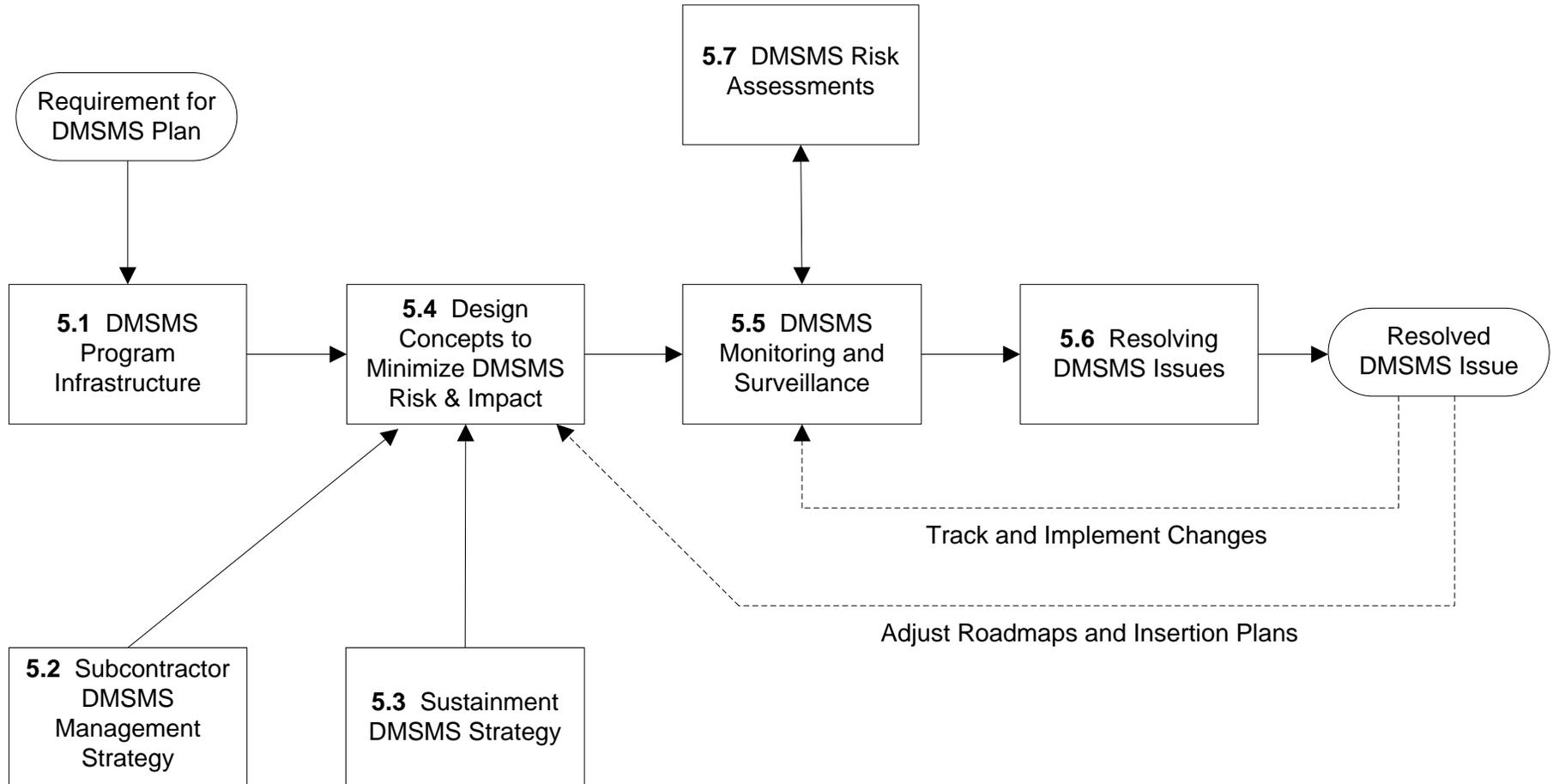
Approach for Verification Criteria

- **Model after AS6462 for Counterfeit Risk Mitigation Plans**
- **Use Industry/Government Team for developing criteria**
- **Include Verification Criteria in an Appendix in a new Rev A update of STD-0016**
- **Rev A update to also revise Section 5 (Technical Requirements) of STD-0016 to allow easier development of Verification Criteria**

Verification Criteria

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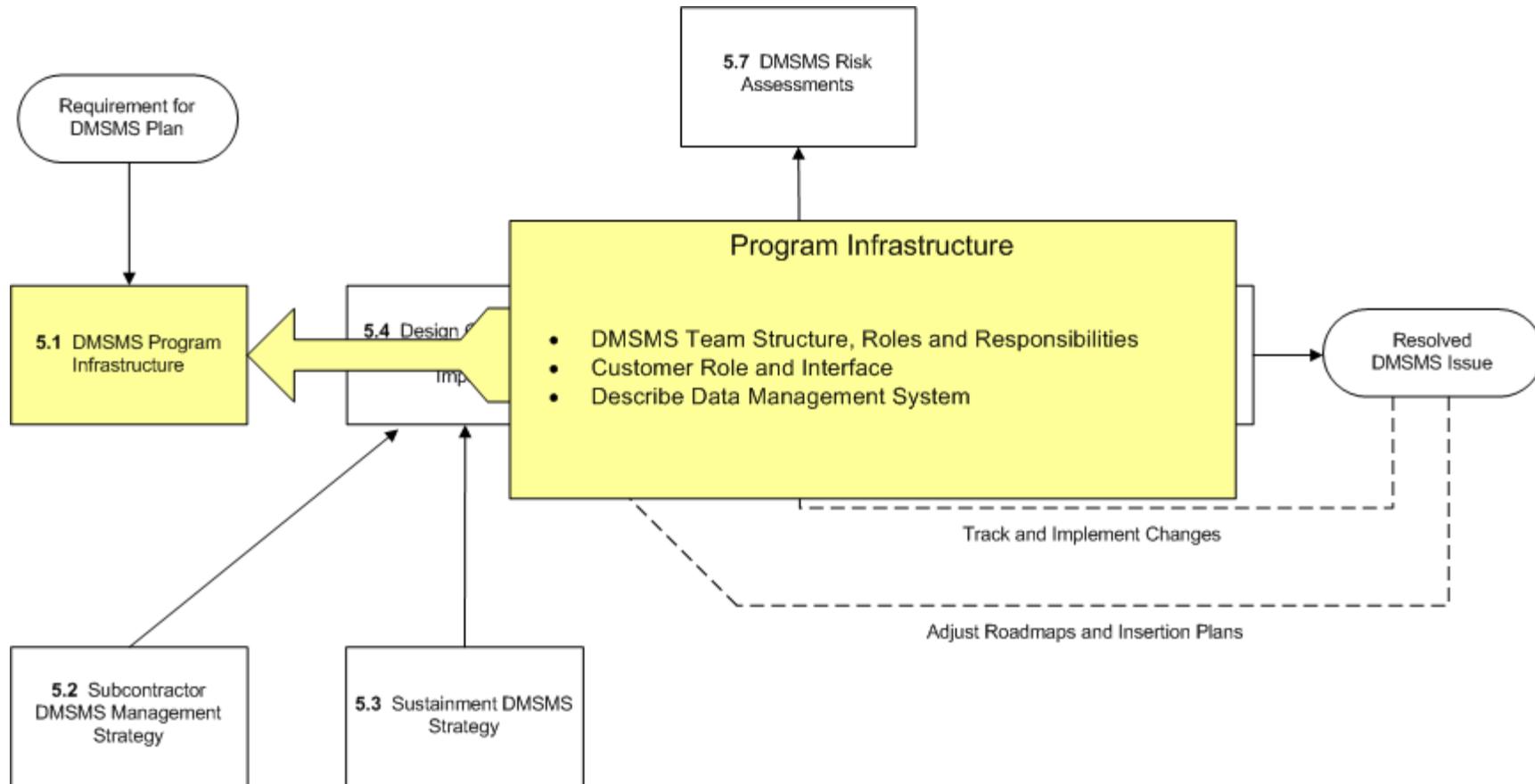
Verification Criteria



Verification Criteria

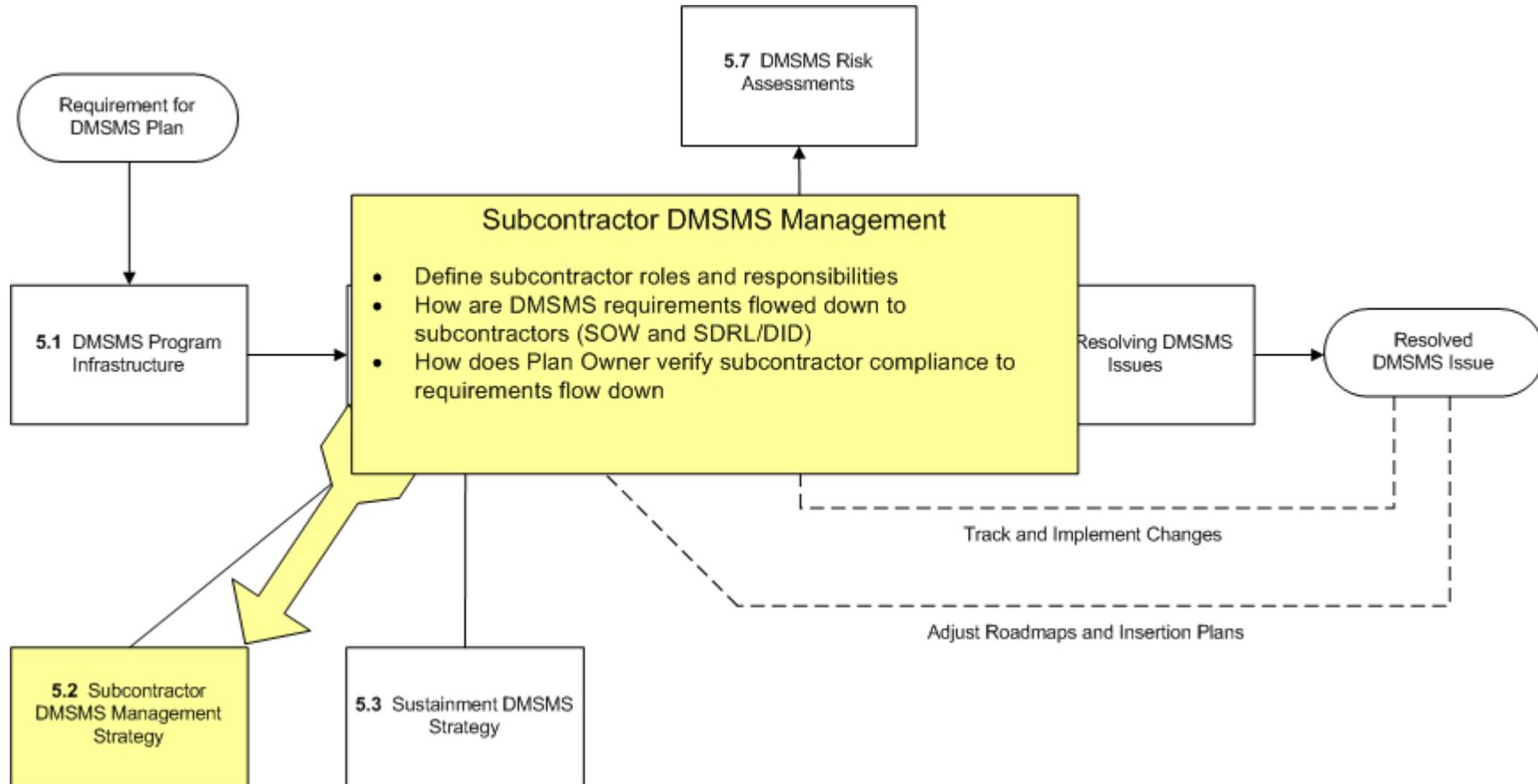
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Verification Criteria – 5.1



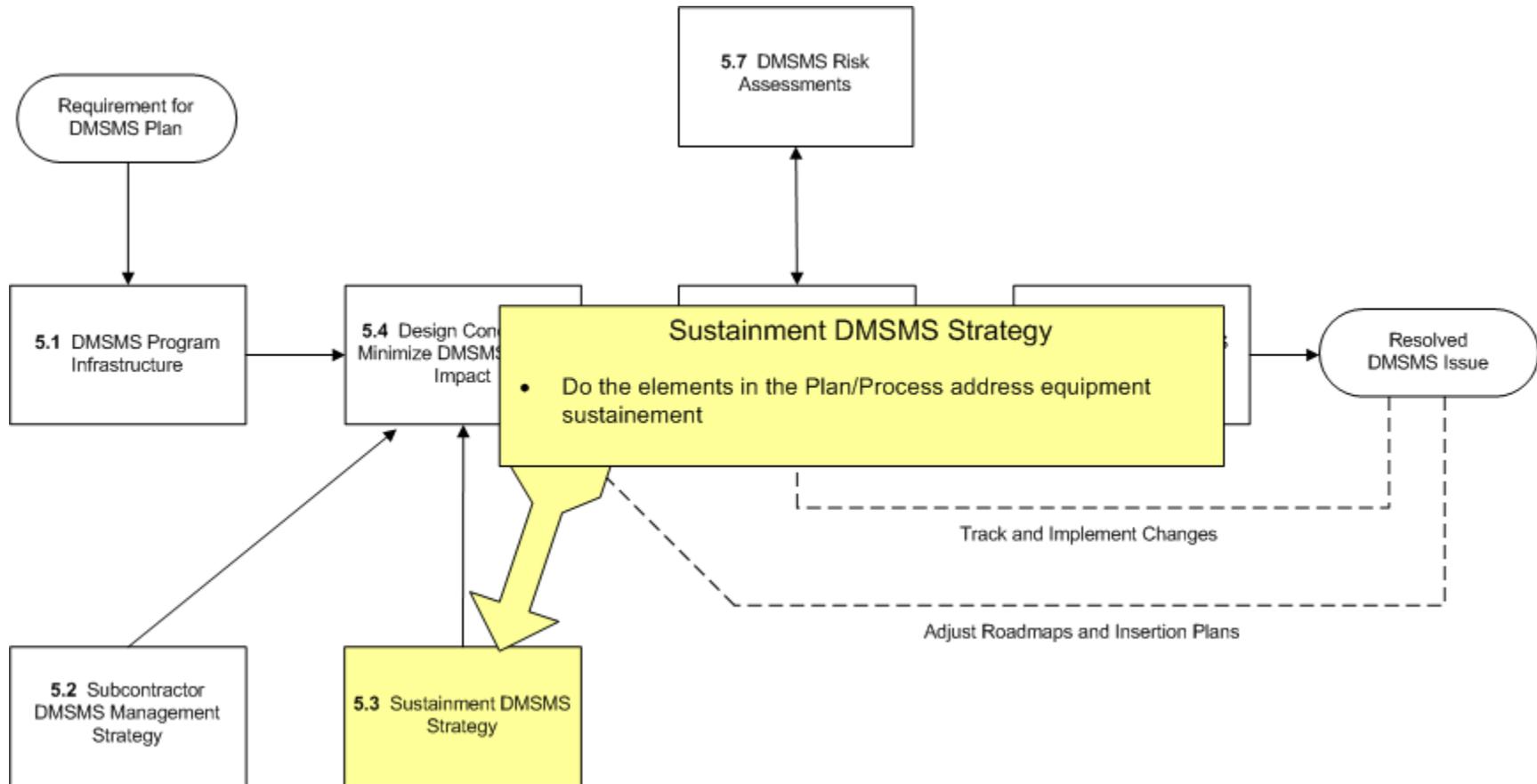
Verification Criteria

Verification Criteria – 5.2



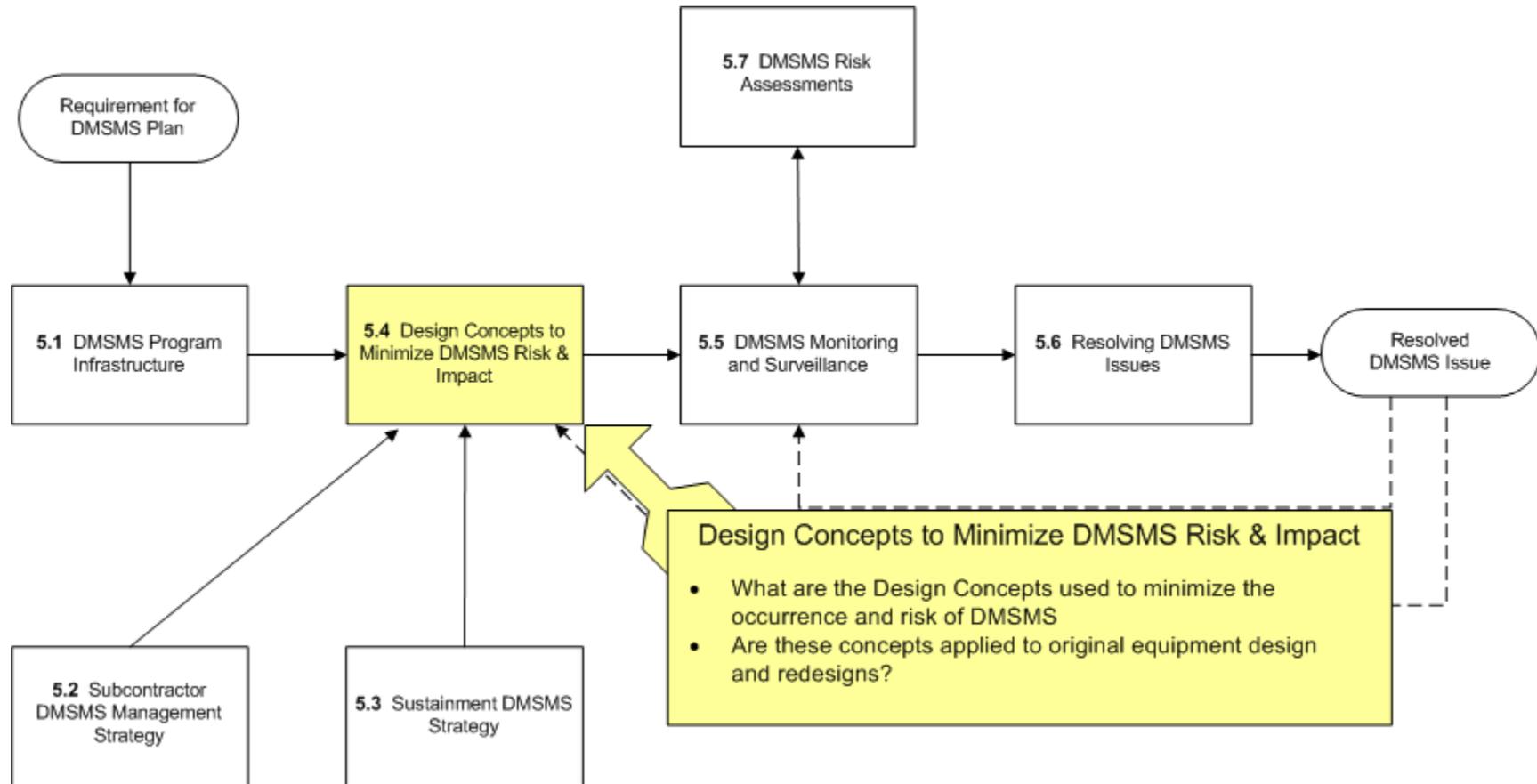
Verification Criteria

Verification Criteria – 5.3



Verification Criteria

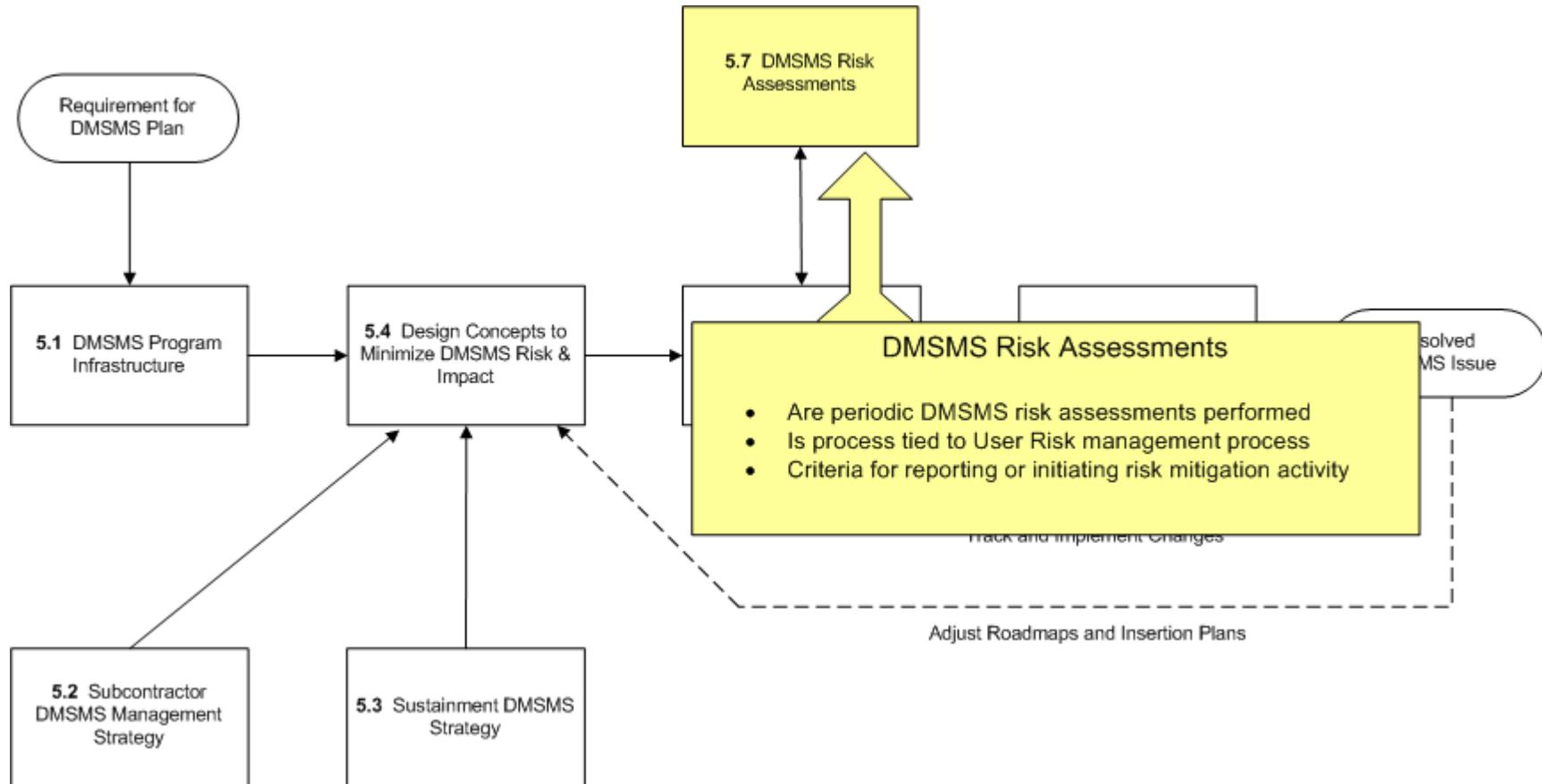
Verification Criteria - 5.4



Verification Criteria

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Verification Criteria – 5.7



Verification Criteria

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Current Status

Plan was to form team in 2014 to develop criteria and update STD-0016

- **My funding source for supporting this effort was closed on March 1**
- **Limited progress made on criteria**
- **Hoping to have funding restored later this year to allow project restart**

Goal is to involve PSMC/DMSMS WG in criteria development

- **Call for volunteers to be made**