



# Diminishing Manufacturing Sources and Material Shortages (DMSMS) Program

## ANALYSIS & RESOLUTION (A&R) Support

For more information on A&R  
within the DMSMS program:

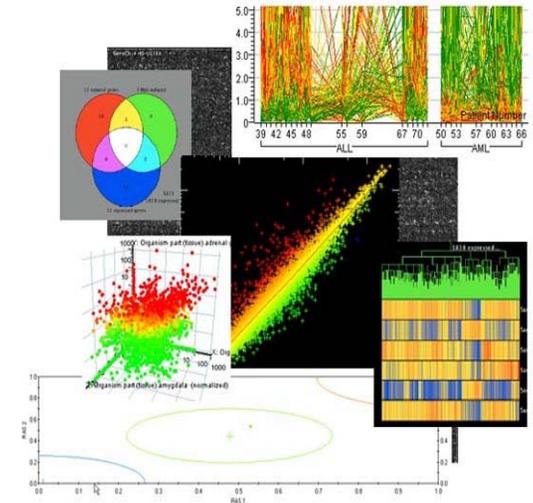
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The A&R team supports the  
448 SCMW and Weapons  
Systems managed at Hill,  
Robins and Tinker AFB



## **A&R (Who we are)**

The A&R team is comprised of government and contractors who work in support of the 448 Supply Chain Management Wing (SCMW). Logistics and engineering personnel on the team have several years of analytical and hands on experience across multiple weapon system (WS) platforms.

## **A&R (What we do)**

The team analyzes engineering and logistics support issues stemming from DMSMS. DMSMS is the loss or impending loss of manufacturers of items or suppliers of items or raw materials.

Air Force Bill of Materials are researched, analyzed and resolutions are recommended before impacting mission capability. The team researches the Defense Logistics Agency and other Air Force sources to identify logistical solutions as a first step. If a logistical solution is not identified, the team provides engineering support to resolve the DMSMS issue.

Additionally, the team provides a deep look analysis to include reliability, availability and maintainability (RAM) data, impact assessments and an evaluation of alternatives as required. The team takes a proactive approach to DMSMS management and maintains a reactive process when unforeseen issues arise.

## **A&R (How we do it) Four Phased Approach**

### **(1) Identification**

The DMSMS predictive tool (AVCOM) is used to status the line replaceable units (LRUs) and shop replaceable units (SRUs) down to the component level. Initially, LRUs/SRUs are identified from the tool based on the percentage of obsolescence issues. The team obtains health analysis reports from the tool and reviews RAM data to prioritize the DMSMS of LRUs/SRUs.

An additional way to identify if a part has DMSMS is from a WS manager initiating a Problem Part Report (PPR) in AVCOM. AVCOM contains a STAR module where PPRs are researched, tracked and coordinated between the DMSMS team and technical managers.



### **(2) Resolution**

During this phase, LRUs/SRUs on the prioritized list are analyzed. The team analyzes logistics and engineering methodologies to identify resolutions. Some examples include: existing stock, potential substitutes, alternate resolutions, reclamation and commercial off the shelf items.

### **(3) Validation**

In the third phase, the accuracy of documentation is validated. The recommended resolutions run through a quality control procedure; the documentation is reviewed to ensure the accuracy and relevancy prior to implementation.

### **(4) Implementation**

The final phase provides all the technical supporting documentation for the resolution. The documentation is submitted to the technical managers to ensure Operational Safety, Suitability and Effectiveness (OSS&E) compliance. Once approved by the technical manager, the technical order and AVCOM will be updated to reflect the proposed resolution. Supporting documentation for the recommended resolutions are also stored in AVCOM for each PPR.