PRODUCTS AND SERVICES

Diminishing Manufacturing Sources and Material Shortages (DMSMS)

Diminishing Manufacturing Sources and Material Shortages (DMSMS) are a major concern in the Department of Defense (DoD). Identification of these parts usually occurs after the impact of nonsupport ability has already been felt. Early identification and systematic research of these parts is essential to DoD and in particular Air Force mission accomplishment. SSAI is acutely aware of the impact of problem parts and has extensive experience in identifying and correcting problems arising from obsolete parts.

For over 14 years, SSAI has excelled in the timely resolution of part availability problems. Our in depth research of obsolete and problem parts, covers a wide range of military aircraft and systems. These include the AC-130A/H/U, the MC-130E/H the MH-53J/M and MH-60 helicopters, the F-15, C-141B/C model aircraft and major aircraft systems.

Our research encompasses the use of: DO43, FED LOG, WEBLink, WEBCats, QML and QPL, aircraft and commodity drawings, AVCOM, GIDEP and direct contact with manufacturers, vendors and distributors. Replacement parts are evaluated for form, fit and function by our engineering department. When appropriate, we have performed these efforts at the aircraft.

Our most recent and extensive DMSMS efforts has been for the C-141 aircraft and associated systems. SSAI researched, identified and documented DMSMS and other related information for over 260,000 parts. Using this information SSAI has been able to accomplish the following:

- **Identify and resolve DMSMS issues for over 66,000 parts Load Shedding Analysis**
- **Populate the C-141 Application/Programs/Indenture (API) with over 100,000 records Full MIL-E-7016 report and graph generation**
- **Submit over 450 AFMC Forms 252, T.O. Change Requests, for over 45,000 items updating C-141 and commodity IPBs**
- **Submit AFMC Form 918 for stock listing of replacement parts and identifying C-141 as user for DLA managed items**
- **Provide engineering support for replacement part evaluation, system sustainment, qualification testing and reengineering**
- **Evaluated and resolved several DLA Forms339, Engineering Support Requests for WRALC/LJEB**

SSAI has developed a DMSMS Case Resolution Process that is modeled after GIDEP, AFMC and other leading DMSMS case resolution guides. We perform extensive resolution research and deliver a detailed report outlining recommended solutions and the justification for DMSMS related items. We have used this process to identify data errors in AVCOM as well as locating alternate sources and identifying replacement items.

SSAI performed extensive parts research and reverse engineering on several aircraft systems brought about as a result of DMSMS. One is the ASQ-145 Low Light Level TV Sensing System. This system was brought to SSAI with a 78% non-supportability rate and consisted of thirteen LRUs and over 5,500 components. Through extensive parts research and reverse engineering, this system was returned to the government at a 99% supportability rate.

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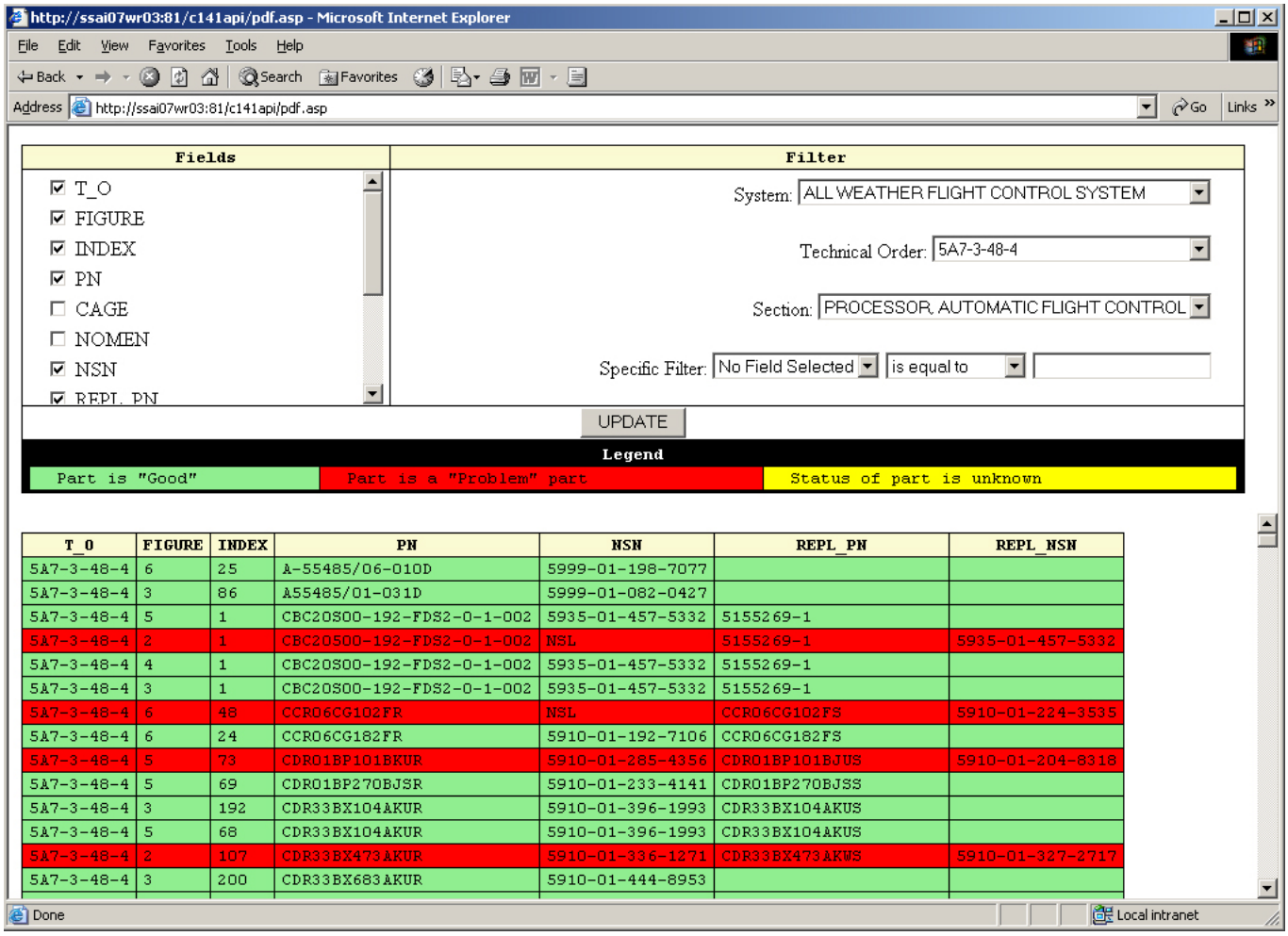
SSAI Parts database has an Equipment Specialist (ES) Review Screen to enable the ES to review items included in an AFMC Form 252. The review screen is accessed through the Integrated Digital Environment (IDE). The ES can review the record/s as it appears in the Parts Database and can either accept the recommended changes or annotate the changes the ES desires. The database is updated with the ES inputs/comments and a finalized AFMC Form 252 is generated with the ES approved changes. There is also a Part Query Program that enables the customer to access and query the DMSMS parts database for specific part related information. The database consists of all parts that are listed in the associated IPB.

SSAI Online Parts Database:



T_O	FIGURE	INDEX	PN	NSN	REPL_PN	REPL_NSN
5A7-3-48-4	6	25	A-55485/06-010D	5999-01-198-7077		
5A7-3-48-4	3	86	A55485/01-031D	5999-01-082-0427		
5A7-3-48-4	5	1	CBC20S00-192-FDS2-0-1-002	5935-01-457-5332	5155269-1	
5A7-3-48-4	2	1	CBC20S00-192-FDS2-0-1-002	NSL	5155269-1	5935-01-457-5332
5A7-3-48-4	4	1	CBC20S00-192-FDS2-0-1-002	5935-01-457-5332	5155269-1	
5A7-3-48-4	3	1	CBC20S00-192-FDS2-0-1-002	5935-01-457-5332	5155269-1	
5A7-3-48-4	6	48	CCR06CG102FR	NSL	CCR06CG102FS	5910-01-224-3535
5A7-3-48-4	6	24	CCR06CG182FR	5910-01-192-7106	CCR06CG182FS	
5A7-3-48-4	5	73	CDR01BP101BKUR	5910-01-285-4356	CDR01BP101BJUS	5910-01-204-8318
5A7-3-48-4	5	69	CDR01BP270BJSR	5910-01-233-4141	CDR01BP270BJSS	
5A7-3-48-4	3	192	CDR33BX104AKUR	5910-01-396-1993	CDR33BX104AKUS	
5A7-3-48-4	5	68	CDR33BX104AKUR	5910-01-396-1993	CDR33BX104AKUS	
5A7-3-48-4	2	107	CDR33BX473AKUR	5910-01-336-1271	CDR33BX473AKWS	5910-01-327-2717
5A7-3-48-4	3	200	CDR33BX683AKUR	5910-01-444-8953		

SSAI is experienced in identifying and resolving DMSMS issues. Our comprehensive approach encompasses all areas involved with aircraft and system support. We identify and solve problems from the manufacturer/vender to DLA management and supply procedures to engineering evaluation and reengineering of existing systems and components. As aging aircraft and systems become more common, we hope to use our expertise to ensure continued support and sustainment of these systems.