



JSF Item Unique Identification (IUID) Implementation Plan

Program System Name:	F-35 Joint Strike Fighter	Program Element:	0207142F (USAF); 0204146N (USN)
Program Manager:	CDR Roger Kissel	PEO:	RADM Steven Enewold
Date of Plan:	November 2005	ACAT:	1D

References: DoD Guide to Uniquely Identifying Items (16 Apr 2004), DoD Item Unique Identification (IUID) Implementation policy memorandums, DFARS clause 252.211-7003, P&W UID Implementation Plan dated 4 May 2005 (or later), GE UID Single Process Initiative, UID Implementation Plan for Rolls-Royce Corporation, LM Team Program Directive PD-53

JSF IUID Implementation Strategy: The JSF Program Office has Acquisition and Total Life-Cycle System Support responsibility for the F-35 Program and its deliverables. The JSF program plans to implement the IUID initiative in accordance with DoD IUID implementation guidance and the references identified above. The F-35 Prime Team consists of LM, NGC, BAES, P&W, and GE Rolls-Royce Fighter Engine Team (FET).

Marking: The F-35 Program plans to implement IUID requirements on JSF assets in accordance with the procedures, processes, and timelines identified in this Plan. Specific tasks include:

- o Identify JSF items (equipment and repairables) which are deliverable to the Government at a unit price of \$5,000 or greater, or DoD serially managed (traceable/serialized parts), mission essential (critical to safety items), or controlled inventory, or consumable items requiring unique item identification (Government shall concur with list of items to be marked)
 - JSF DFARS 252.211-7003 (c) (ii), (iii) items will be selected for unique item identification if they meet the definition above and are considered replaceable items within the contractor’s Bill of Material (BOM). Replaceable as used in this plan means “planned for normal remove and replace support activity” from the end item air vehicle, support equipment, training equipment, or engine. Items that are replaceable are normally spared in the JSF supply chain pipeline. Embedded items that otherwise meet the unique item identifier (UII) marking criteria that are not considered to be standard replaceable items (e.g., wing skins, bulkheads, antennas bonded in edges, etc.) are not required to be separately UII marked, as they are not typically spared and their inventory value rolls up into the next higher assembly or deliverable item
- o Add DoD UII compliant (2D data matrix mark utilizing the UII constructs) marking requirements and marking processes to engineering designs/drawings for items designated for UII marking using a program-standard note
- o Work with supplier base (internal and external) to ensure IUID requirements are fully understood
- o Mark parts with DoD UII compliant marking per plan (internal and supplier base)
- o Analyze spares usage and flight test data for IUID list update
- o Design and build tooling and holding fixtures required for IUID
- o Train internal & external workforce in IUID “how to”
- o There are no F-35 legacy items requiring disposition
- o There are currently no F-35 depot manufactured items and plant equipment
- o DoD UII compliant marking of JSF Government Furnished Property (GFP) will be conducted in accordance with the individual F-35 prime teams’ corporate DoD UII compliant marking plans based on the IUID Policy for Tangible Personal Property, including Government Property in the Possession of Contractors (PIPC)

Technical Documentation Strategy: The F-35 Prime Team is planning to implement individual program-standard part marking notes for engineering drawings coupled with individual company standard specifications to minimize non-recurring engineering costs associated with revising drawings for IUID implementation.

Business Strategy for Implementing IUID: Implement IUID at F-35 Program LRIP for replaceable items in accordance with IUID guidance and the timeline in this plan. To prepare for IUID: (1) LM Aero has purchased IUID laboratory equipment, is qualifying DoD UII compliant marking methods, and is adding a standardized part marking note to engineering drawings at their initial release; all activities occurring in SDD are to reduce the risk of IUID implementation by LRIP; (2) The F135 P&W Team is using a cross-program IUID Implementation Plan to implement IUID for legacy programs, and will use SDD funding to perform design activity required for IUID to reduce the risk of IUID implementation by LRIP; (3) The F136 FET is using individual corporate plans to facilitate the implementation of IUID through the SDD contract with completed implementation by LRIP.

Opportunities to Improve or Enhance Business Processes: Under the JSF Autonomic Logistics concept, the DoD UII compliant (2D data matrix mark utilizing the UII constructs) mark will be used by Organizational Level maintenance personnel to identify the asset upon removal from and prior to installation to JSF aircraft. This automated capture of part information will facilitate accurate item identification, configuration management, and total asset visibility.

Metrics:

- % of drawings that have the program-standard note on IUID for F-35 applicable parts (e.g., 25% of 182 applicable drawings), measured quarterly commencing FY 06. Compliance with requirement measured through corporate Quality Assurance activities.

Elements/Dates			
		<u>FY Start Date</u>	<u>FY Complete Date</u>
1.0	Preparation Activities		
1.1	Priorities for application of IUID and associated data transfer established (<i>specify on page 2</i>)	FY 2005	1 st LRIP delivery LM/PW - 2009 GE/RR – 2012
1.2	Listing of items requiring IUID completed for each application priority (<i>1.1 application categories...see page 2</i>)	FY 2005	FY2006
1.3	DoD UII compliant marking strategy studies and ROM estimates completed		
1.3.1	- ROM estimates completed	FY 2004	FY 2005
1.3.2	- DoD UII compliant marking strategy studies	FY 2004	PW - 2005 LM/GE/RR - 2006
1.4	AIS integration strategy studies and ROM estimates completed	FY 2005	PW – 2005 LM/GE/RR - 2006
1.5	Budget for IUID implementation submitted	FY 2004	FY 2005
2.0	Implementation/Execution Activities		
2.1	Legacy contracts (issued prior to 1 Jan 2004) modified	FY 2005	FY 2005
2.2	Key Program trigger events (physical marking of items) identified	FY 2007	FY 2009
2.3	Progress Reviews	FY 2007	FY 2009
3.0	Capability achieved (physical marking & ability to transfer Pedigree data to Registry)	FY 2007	Sep 2009 with 1 st LRIP aircraft
3.1	All new solicitations include IUID requirement	FY 2005	FY 2005
3.2	Legacy contracts modified	FY 2005	FY 2005
3.3	Assignment of Virtual IUIDs	N/A	N/A
3.4	GFP in possession of contractors (in-plant GFP – virtual)	Addressed in individual Corporate plans	N/A
3.5	Items in operational use	FY 2009 FET 2012	FY 2009 FET 2012
3.6	Items in inventory (ICPs, Supply Depots etc)	FY 2009 FET 2012	FY 2009 FET 2012
3.7	Depot maintenance & manufactured items achieved	TBD	TBD
3.8	IUID capable AIS	FY 2009 FET 2012	FY 2009 FET 2012

Figure 1

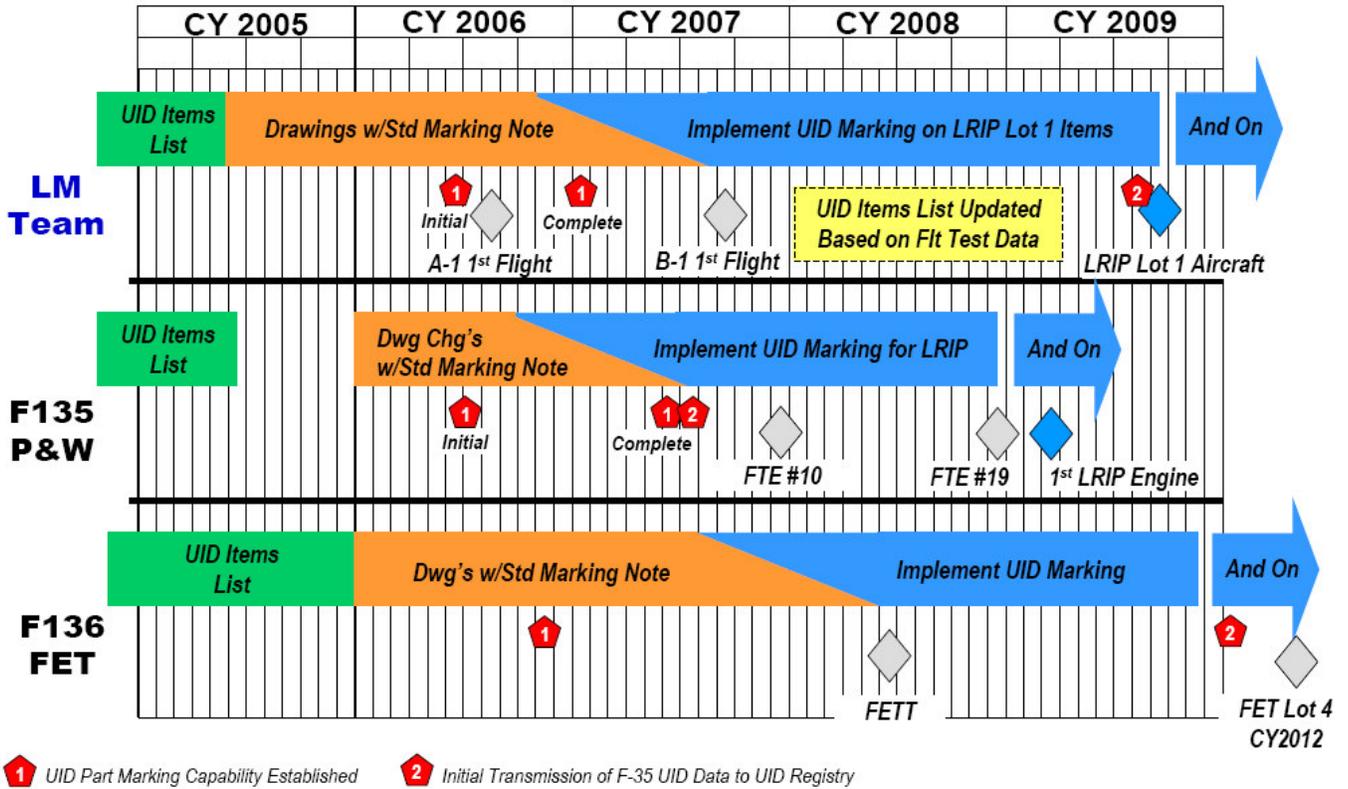
1.1	Established priorities for application of UID and associated data transfer: [priority number 1 (high), 2 (med), 3 (low)] <u>1</u> New solicitations: Post Jan 2004. <u>3</u> On-going Contracts: Post Jan 2005. <u>N/A</u> GFP in possession of contractors: Post Jan 2005. <u>N/A</u> Operational Fleet: Post Jan 2005. <u>N/A</u> Assets in inventory: Post Jan 2005. <ul style="list-style-type: none"> <u>N/A</u> Assets in Depot Maintenance: Post Jan 2005 <p>Exemptions or exclusions to the UID policy require approval by: <u>F-35 PEO – RADM S. Enewold.</u></p>
2.3	Identify Key Program trigger events (physical UID marking of items): <ul style="list-style-type: none"> 1st delivery of Program LRIP assets/air vehicles/propulsion systems

FY (\$s in M) *	FY-05	FY-06	FY-07	FY-08 / 09
Program Resource	Infrastructure: \$	Infrastructure: \$	Infrastructure: \$	Infrastructure: \$
\$Infrastructure: \$	Manpower: \$	Manpower: \$	Manpower: \$	Manpower: \$
\$Manpower: \$	Training: \$	Training: \$	Training: \$	Training: \$
\$Training: \$	Total: \$	Total: \$	Total: \$	Total: \$
\$Total: \$				

Figure 2



F-35 UID Timeline



SUBMITTED:

Program Manager Name: CDR Roger Kissel	
Title: JSF AL SCM IPT Lead	
Signature	Date

APPROVED:

Program Executive Officer Name: RADM Steven Enewold	
Title: JSF Program Director	
Signature	Date

Component Acquisition Executive Name:	
Title	
Signature	Date

OUSD (AT&L) Name:	
Signature	Date

Other Delegated Programs

ACAT 1C Programs

ACAT 1D Programs