JOINT DIRECT ATTACK UNIQUE IDENTIFICATION (UID) IMPLEMENTATION PLAN

Program System Name:	Joint Direct Attack Munitions (JDAM)	Program Element:	PE27583F
Program Manager	Lt. Col. Richard Hyde	PEO	Maj Gen Jeffrey R. Riemer
Date of Plan	5 January, 2006	ACAT	1C
Point of Contact	Mr. Dwight Jantzen		

1. **System Description:**
   - The JDAM Guidance Kit, Commodity Class V (Ordnance), is a GPS/INS tail kit that will guide a general purpose bomb to a specified target location. The JDAM kit, produced by The Boeing Company St. Charles MO, offers reliable performance in worldwide operational environments with low operational support cost. These tail kits are normally kept in dormant storage until they are needed for combat use, with the exception of training assets. There are no key events or physical inspections that require JDAM tail kits to be unpackaged. The program is currently in Lot 8 production with Lot 9 on contract for delivery from Mar 06 – Mar 07. Future production funding exists through Lot 15, FY 2011.

2. **References:**
   MIL STD 130M, DFARS CLAUSE 252.211-7003, OSD Policy Memo 23 Dec 04, OSD Policy Memo 12 May 05, OSD Policy Memo 27 Oct 05
   http://www.acq.osd.mil/dpap/UID

3. **Exemption and Approval Source:**
   N/A

4. **Describe the overall UID Implementation Strategy to include:**
   - Production
     - Current production contract (Lot 8) was awarded prior to Jan 04 requirements for UID implementation.
     - The contractor voluntarily implemented UID policy for 2D data matrix marking and entry of data into Wide Area Work Flow (WAWF) in Jun 05.

- New production contract (Lot 9) awarded Mar 05 includes UID DFARS clause. All future contracts will require the contractor to be UID compliant.
- Requirements include marking all new production assets, (tail kits, load build trainers, telemetry) and data submittal to WAWF.

- Legacy items
    - Current status
        - The USAF and USN currently have inventory management systems to assess location and condition of stockpile. The USAF system, Consolidated Ammunitions System (CAS) has the capability to track asset by ammunition lot number, and the USN's Ordnance Information System (OIS) has the capability to track each individual item by serial number.
        - Current USAF/USN inventory consists of ~107,000 JDAM tail kits. To date, over 36,000 USAF/USN JDAM tail kits have been marked with 2D data matrix and entered in WAWF via new production and depot repairs.
    - Item Unique Identification (IUID) implementation
        - Boeing depot repair
            - The contractor will perform all warranty and non-warranty depot repairs. Unique Item Identifier (UII) marking of repaired assets is accomplished at the contractor's facility via production and technical services contracts requirements and data is submitted to WAWF.
        - Single Manager for Conventional Ammunitions (SMCA) Army Depots
            - Majority of JDAM legacy assets are stored within Army Depots.
            - Per SMCA UID implementation plan, Army depots will mark all JDAM assets in storage depots and enter data into the DoD registry during depot level maintenance.
        - Service unique ammunition sites
            - The program office coordinated with AF/ILMW, AFMC/LSO, Navy Ordnance Logistics Support Center (NOLSC), and NAVAIR to identify the individual service's UID vision and strategies.
                - Munitions Storage Areas (MSA) will have capability to read and record UII information and reproduce UII markings by 2010.
                - HQ OSSG and NOLSC will update the USAF CAS and Navy OIS ammunition accountability

data base to capture UID information and link the systems to the DoD Registry providing automated two-way data transfer.

- o During annual USAF inventory, munitions personnel will capture serial numbers of all legacy JDAM tail kits. They will use the information to physically mark the outer container and submit data to the DoD registry.
- o During repacking of tailkits, munitions/ordnance personnel will enter UII into DoD registry and physically mark the JDAM tail kits.
- o Prior to or following shipboard on-load/off-load, Receipt Segregate Shipping Inspection (RSSI) personnel will mark containers with 2D labels.

- Depot manufactured items and plant equipment
  - o There are no depot manufactured items within the JDAM program. Boeing is responsible for production and repair of all JDAM guidance set and is complying with UID policy as noted previously.
- Describe process for entry of UII and pedigree data into the UID Registry
  - o All Boeing production and repair actions will capture the IUID through the WAWF data base.
- Technical documentation strategy to minimize the non-recurring costs for marking
  - o JDAM program has used a bar coding label since inception. The cost of marking is included in the unit price.
  - o Boeing drawings were updated at no cost to the Government and approved through the Configuration Control Board (CCB) to implement UII markings.
  - o Technical Orders (T.O.) are on contract for annual updates. Incorporation of IUID marking is included as a minor change in the 2006 update. The T.O. update will identify contents of UII 2D data matrix symbol for future remarking in the field.
- Property In Possession of Contractors (PIPC)
  - o JDAM program is coordinating with DCMA and Boeing on implementation due to no DFARS for GFP and/or PIPC.
  - o Contracts will be updated when DFARS clause is released.

- Describe the program sustainment strategy
  - Due to JDAM vapor barrier bag concept to preserve assets over long periods of time, only the containers will be remarked with UII in the field. Containers will be marked during key events such as field retrofits, receipts and shipment at respective services ammunition sites.
    - Container UII markings will accurately depict hardware resident within the container.
    - Tail kits UII markings will be added during depot maintenance activity and field packing and unpacking for combat or training use.

5. **Identify IUID related actions to improve or enhance business processes**
   - IUID will be used in production and repair to update Boeing's configuration marriage records enabling accurate accounting of system hardware

6. **List Metrics**
   - Number of total items requiring legacy IUID ~ 71,000 tail kits
   - Percent of total items assigned a virtual UII – 0%
   - Percent of items assigned a UII reported to the IUID Registry - ~33%
   - Percent of items assigned a virtual UII that had been physically marked with an IUID-compliant Data Matrix - 0%
   - Percent of total items marked with an IUID-compliant Data Matrix - ~33%
   - New contracts including the IUID clause – 2; Lot 9 Production, 2006 Technical Services Contract

7. **Provide schedule by completing Elements and Dates below:**

	Elements	Dates	
		FY Start Date	**FY Complete Date**
1.0	Preparation Activities	2004	2005
1.1	Priorities for application of IUID and associated data transfer established (specify in paragraph 5)	2005	2007
1.2	Listing of items requiring IUID completed for each application priority (1.1 application categories)	2004	2005
1.3	IUID marking strategy studies and ROM estimates completed	2004	2005
1.4	Cross Program/Service AIS integration strategy studies and ROM estimates completed	2004	2005
1.5	Budget for IUID implementation submitted	N/A	N/A
2.0	Implementation/Execution Activities	2005	2010
2.1	Legacy contracts (issued prior to 1 Jan 04) modified	N/A	N/A
2.2(.1-.N)	Key Program trigger events (physical marking of items) identified	2005	2010
2.3	Progress Reviews	2005	2010
3.0	Capability Achieved (physical marking & ability to transfer Pedigree data to Registry)	2005	2010
			Full Capability Achievement Date
3.1	All New solicitations include IUID Requirement	2005	End Of Program
3.2	Legacy Contracts Modified	2005	2006
3.3	Assignment of Virtual UIIs	N/A	N/A
3.4	Property in possession of contractors (in-plant GFP – virtual)	2005	2010
3.5	Items in operational use	NA	NA
3.6	Items in inventory (ICPs, Supply Depots etc)	NA	NA
3.7	Depot maintenance & manufactured items achieved	2005	2010
3.8	IUID capable AIS	N/A	N/A

8. **Established priorities for application of IUID and associated data transfer: insert priority number 1 (high), 2 (med), 3 (low)**
   - __1___ New solicitations: Post Jan 04
   - __1___ On-going contracts: Post Jan 05
   - __2___ GFP in possession of contractors: Post Jan 05
   - __3___ Operational Fleet: Post Jan 05
   - __3___ Assets in inventory: Post Jan 05
   - __2___ Assets in Depot (Contractor) Maintenance: Post Jan 05

9. **Identify Key Program trigger events for physical marking of UIIs on legacy and PIPC items:**
   - Warranty and non- warranty repair.
   - PIPC when DFARS is received.
   - For assets in AF and Navy inventory.
     - AF and Navy can mark during annual inventory, re-packing and/or movements.

10. **Show Program IUID Related Budget Information by Fiscal Year below in Figure 2.**
    - No cost increase on production and/or repair contracts.
      - Contractor capitalized on software and hardware upgrades to existing production equipment at no cost to Government.
    - Undetermined on GFP/PIPC until DFARS is received and RFP submitted to contractor.

FY (As needed)	FY1	FY 2	FY 3	FY 4
Program Resource $Infrastructure ——— $Manpower ——— $Training ——— $Total ———	NO COST TO GOVT.	NO COST TO GOVT.	NO COST TO GOVT.	NO COST TO GOVT.

SUBMITTED:

BRIAN KELLEY, Maj. USN Navy JDAM Deputy Program Manager	
Signature	Date
	20 Jun 06

RICHARD HYDE, Lt Col, USAF JDAM Program Manager	
Signature *Richard Hyde*	Date 20 Jan 06

REVIEW / COORDINATE:

LYNDA RUTLEDGE, GS-15 Direct Attack Support Group Director	
Signature *Lynda T Rutledge*	Date 20 Jan 06

THOMAS J. ROBILLARD, SES Director, Air-to-Ground Munitions System Wing	
Signature	Date 3 Jan 06

APPROVED:

JEFFREY R. RIEMER, Maj Gen, USAF Program Executive Officer for Weapons and Commander, Air Armament Center	
Signature *Jeffrey R. Riemer*	Date 1 Mar 06

MICHAEL W. WYNNE Secretary of the Air Force	
Signature	Date