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Presented to:

ISR Task Force Requirements IPT (or IEB, IRB as appropriate)

Date: TBD (b)(3)

> **Please provide POCs** NIPR, SIPR and JWICS contact information

SECRET/NOFORN

(b)(1) (b)(3)

- Requirement
- Initiative Description
- Quad
- Operational View
- Collection, Processing, Exploitation & Dissemination (CPED)
- Planning Issues

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- SFCRFT/NO F	
	(b)(3
PROBLEM: Provide operations and maintenance for High Altitude LIDAR Operational Experiment (HALOE) CPED	
NRO REQUIREMENT(S): Response to numerous IPLs and Requirements:	
	(b)(3)

BACKGROUND: Plan for HALOE Phase 3 CPED operations to begin 1 May 2012 SATISFACTION: Acquire 12 months of HALOE CPED O&M:

- Airborne segment sensor and aircraft collection
- PED tent, generator, processing van, staffing
- PED staffing and program management

(b)(3)

SECRET/NOFORN

(b)(1) (b)(3)

DESCRIPTION: HALOE CPED O&M is a restart of capabilities interrupted due to re-tasking of initial capability aircraft

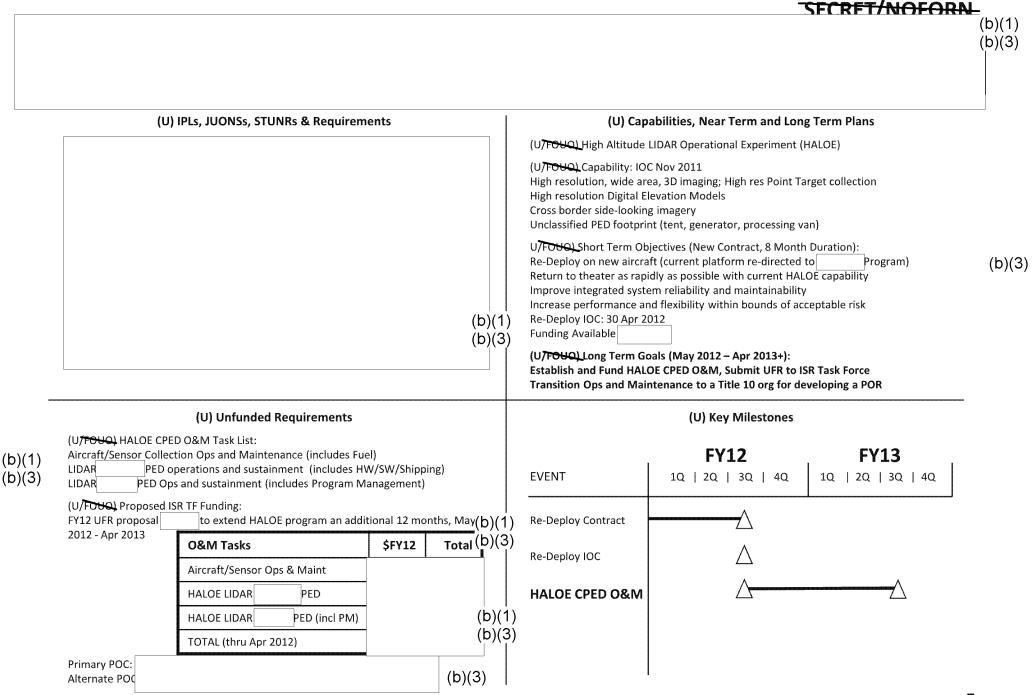
CAPABILITY: HALOE CPED O&M provides:

- High resolution, wide area, 3D imaging
- High resolution, Point Target collection
- High resolution Digital Elevation Models
- Cross border side-looking imagery

DELIVERABLES: One (1) year HALOE CPED O&M

DELIVERY: Four (4) months from receipt of funds to delivery in theater

IOC and FOC: Full Operational Capability commences 1 May 2012



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HALOE O&M Collection Modes

- Targeting LLA (Lat-Long-Altitude)
- Wide-Area Mapping: Single-Look, 2-Look and Multi-Look Geocoding
- Cross-Border: Target mode and Area mode
- Foliage Penetration (FOPEN)

HALOE O&M PED

 Processing	
In-theater	HALOE operations
 Raw sensor data 	Level 0 (L0), processed to geo-registered point cloud (L3)
 Exploitation	
In-theater	HALOE operations
 L3 data processe 	d to Gridded Digital Elevation Models (L4)
 Dissemination	
In-theater	
– Ship L4 pro	ducts to in-theater customers
 NGA NEA courie 	retrieves LO-L4 products
- Are	nive and PED

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(b)(3)

(b)(1) (b)(3)

(b)(1) (b)(3)

Risks:

- HALOE CPED Re-Deployment capabilities lack O&M funding
- Without a source of O&M funds, satisfying USCENTCOM requirements for high resolution 3D products is jeopardized
 - Mission planning
 - Rehearsals
 - Broad mission analysis functions

Sustainment:

- ISR TF funding is needed to bridge gap between HALOE CPED IOC and Program of Record (POR)
- Transition:
- Plan to establish HALOE CPED POR in FY13

(b)(1) (b)(3)

BACK-UPS

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