

8 August 2012

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NATIONAL RECONNAISSANCE OFFICE

Second Draft, October 2001

Subject: Hard and Deeply Buried Target (HDBT) Working Group Charter

A. (U) SYNOPSIS.

1. ~~(S/NF)~~ Problem. One of most challenging intelligence problems facing DoD and the Intelligence Community are Hard and Deeply Buried Targets (HDBT). ~~(b)(1)1.4, (b)(3) 50 USC 403-1~~

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The growing strategic leverage of adversary programs coupled with advances in tunneling equipment will only make HDBTs less likely to be detected.

2. ~~(S/NF)~~ Requirement. Improved capability to find, characterize, plan, attack and assess HDBTs¹ through focusing NRO capabilities and initiatives on this DNRO Top Ten Hard Problem challenge.

3. ~~(S/NF)~~ Purpose.

a. ~~(S/NF)~~ Increase the awareness of the HDBT problem within NRO to ensure that community needs and requirements are addressed.

b. ~~(S/NF)~~ Facilitate the use of current and future NRO capabilities that operationally support HDBT requirements and/or enhance DoD/Intelligence Community (IC) mission success against the HDBT problem.

c. ~~(S/NF)~~ As requested by the community, coordinate NRO responses to HDBT documents.

d. ~~(S/NF)~~ Optimize ~~match~~ coordination between end-user mission needs and NRO products and services that support all operational element/capabilities against the HDBT problem.

e. ~~(S/NF)~~ Develop and recommend NRO HDBT Working Group positions on HDBT matters.

B. (U) AUTHORITY.

The NRO HDBT Working Group was established at the request of the Director, National Reconnaissance Office so that NRO systems' capabilities against HDBTs could be identified and maximized.

C. (U) ADDITIONAL REFERENCES.

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1. (U) Hard and Deeply Buried Target Defeat, Capstone Requirements Document, Draft, dtd 06 June 00, Chapter 1, Section B, para 2. Mission Need, pg I-3.

2. (U) Defense Intelligence Report DI-2832-9-00-draft, Subj: Lexicon of Hardened Structure Definitions and Terms – Final Draft.
(<http://www.dia.ic.gov/intel/oicc/twj/twj4/lexicon/draft.html>)

3. (U) Hard and Deeply Buried Target Defeat, Capstone Requirements Document, Draft, dtd 06 June 00, Chapter 1, Section D – Operational Elements, pg I-5.

D. (U) MEMBERSHIP.

1. (U) The NRO HDBT Working Group will be chaired by the Deputy Director for Systems Engineering (DDSE) and consists of representatives from the following organizations/offices:

- a. (U) Deputy Director Military Support (DDMS)
- b. (U) Deputy Director National Support (DDNS)
- c. (U) Office of Policy (OP)
- d. (U) Operational Support Office (OSO)
- e. (U) Operational Support Facility (OSF)
- f. (U) Communications Directorate (COMM)
- g. (U) Mission Integration Office (MIO)
- h. (U) Advance Science and Technology (AS&T)
- i. (U) Imagery Intelligence (IMINT)
- j. (U) Signals Intelligence (SIGINT)
- k. (U) Deputy Director for Systems Engineering (DDSE)

2. (U) Administration:

- a. ~~(S/NF)~~ The NRO HDBT WG will meet monthly. As operationally required or otherwise, the NRO HDBT WG Chair may call special meetings as appropriate.
- b. ~~(S/NF)~~ HDBT GWAN email groups have been established (e.g. – *oso-hdbt*, *ddms-hdbt*, *nro-hdbt*) and will be used to disseminate HDBT information, notifications of meeting and to coordinate HDBT documents.
- c. (U) A shared HDBT folder will be used for repository of HDBT information. (*located at S:\Organizations\COO\SHARED\HDBT Working Group*)
- d. (U) Minutes from the NRO HDBT Working Group meetings will be compiled and disseminated to WG members via HDBT email groups by the NRO HDBT WG Executive

E. (U) DEFINITIONS.

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1. (U) A HDBT is a generic term referring to all types of intentionally hardened targets, either above or below ground, which are designed to withstand or minimize kinetic weapons effects. All hardened structures can be further defined or grouped into one of three types. These types are defined based upon the location (above or below ground surface) of the roof of the structure's functional work space. ²

a. (U) Above Hardened Structures – the roof of the structure's functional workspace is above the ground surface level. These structures can be either completely aboveground, partially buried or mounded.

b. (U) Shallow Underground Hardened Structures – the roof of the structure's functional workspace is between the ground surface level and 20 meters deep.

c. (U) Deep Underground Hardened Structures or DUG – the roof of the structure's functional workspace is buried by soil and /or rock at a depth of 20 or more meters.

2. (U) Operational elements. ³

a. (U) Find – detect, locate and identify existing and new HDBTs

b. (U) Characterize – identify mission, critical function, physical attributes, internal configuration, supporting infrastructure, umbilicals, geology and assess HDBT vulnerabilities.

c. (U) Plan – Match the right mix of attack options with the characterization of the HDBT to achieve the required target defeat

d. (U) Attack – execute the plan to achieve the desired effect and survivability

e. (U) Assess – determine the effectiveness of the attack, requirements for follow-up action and update the state of the HDBT.

G. (U) FUNCTION.

(U) The NRO HDBT WG supports NRO-related activities in support of the HDBT problem. Accordingly, the NRO HDBT WG will:

1. ~~(S//NF)~~ Facilitate collaboration among the various IC/DoD organizations and within the NRO with respect to HDBT; collaborations include, but not limited are:

a. ~~(S//NF)~~ DCI: Foreign Denial & Deception Committee (FDDC) & subcommittees (e.g. Satellite Warning, Materials Technology & warfare; underground facilities); Non-Proliferation and Arms Control Technology

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Working Group (NPAC TWG) Underground Facilities; Worldwide Underground Facility Subcommittee (WUFS); Hard Targets initiatives

b. ~~(S/NF)~~ DIA (e.g. - Underground Facility Analysis Center (UFAC); Foreign Denial & Deception Division, etc)

c. ~~(S/NF)~~ CMO

d. ~~(S/NF)~~ NSA

e. ~~(S/NF)~~ NIMA (e.g. - Underground Issues Branch)

f. ~~(S/NF)~~ CIA (e.g. - OTI, DI)

g. ~~(S/NF)~~ Defense Threat Reduction Agency (DTRA)

h. ~~(S/NF)~~ STRATCOM

i. ~~(S/NF)~~ SOCOM

j. ~~(S/NF)~~ Joint Warfare Analysis Center (JWAC)

k. ~~(S/NF)~~ DOD and DOE Labs

l. ~~(S/NF)~~ Other DoD agencies and organizations

2. ~~(S/NF)~~ Provide information on HDBT activities within the NRO and IC/DoD.

a. ~~(S/NF)~~ Current analysis, foreign D&D activities

b. ~~(S/NF)~~ Collection capabilities and alternatives

c. ~~(S/NF)~~ Research/technology, prototypes, experiments, cooperative collection activities

d. ~~(S/NF)~~ Communicate current and future HDBT trends

3. ~~(S/NF)~~ Educate the NRO on the HDBT problem and customer needs.

a. ~~(S/NF)~~ Increase directorate/organization/office awareness of IC/DoD community's near/long-term requirements,

b. ~~(S/NF)~~ Ensure cross directorate dissemination of HDBT community Essential Elements of Information (EEI)

c. ~~(S/NF)~~ Disseminate community desired product information/requirements

d. ~~(S/NF)~~ Identify implications for NRO systems and capabilities in near and long term

4. ~~(S/NF)~~ Educate and/or inform the DoD/IC community of NRO capabilities and future efforts and strategic direction.

5. ~~(S/NF)~~ Identify/address current and future NRO capabilities to operationally support HDBT requirements.

a. ~~(S/NF)~~ Collaborative forum for identifying new HDBT collection, processing, exploitation and data dissemination methods

b. ~~(S/NF)~~ Communicate end-to-end process (collection and/or Tasking Processing Exploitation and Dissemination (TPED)) examination to

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determine shortfalls and recommend NRO alternatives in solving the HDBT intelligence problem

6. ~~(S/NF)~~ Identify and coordinate HDBT requirements within the NRO (e.g. JROC CRD for HDBT Defeat Capability, JCOATS, etc).

7. ~~(S/NF)~~ Support future NRO initiatives that support DoD/IC community needs and requirements to address the HDBT problem (e.g. IPOM process, etc).

H. (U) RESPONSIBILITIES.

1. ~~(S/NF)~~ NRO HDBT WG Chair:

- a. ~~(S/NF)~~ Chairs the NRO HDBT Working Group
- b. ~~(S/NF)~~ Manages the scheduling of the Working Group
- c. ~~(S/NF)~~ Establishes and coordinates publication and distribution of the Working Group agenda and Working Group minutes
- d. ~~(S/NF)~~ Manages and directs the NRO HDBT WG Executive Secretary
- e. ~~(S/NF)~~ Communicates the position of the HDBT WG concerning HDBT issues and support to NRO senior leadership
- f. ~~(S/NF)~~ Invites other DoD and intelligence community agencies
- g. ~~(S/NF)~~ Request NRO briefings from SPO's to provide information on current and future efforts addressing the HDBT problem
- h. ~~(S/NF)~~ Coordinates NRO and WG members action items on HDBTs
- i. ~~(S/NF)~~ Serves as the NRO focal point for DoD, the intelligence community, other U.S. government departments, agencies and industry

2. (U) NRO HDBT WG Executive Secretary:

- a. (U) Schedules meetings
- b. (U) Disseminates meeting notifications
- c. (U) Publishes and disseminates Working Group agendas
- d. (U) Records and disseminates Working Group minutes
- e. (U) Tracks and reports status of action items

3. ~~(S/NF)~~ NRO HDBT WG Members:

- a. ~~(S/NF)~~ Represent their organizations/office and serve as point of contact
- b. ~~(S/NF)~~ Recommend attendance or informational briefings
- c. ~~(S/NF)~~ Recommend actions/positions to the HDBT Chair
- d. ~~(S/NF)~~ Address HDBT issues of concern

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- e. ~~(S//NF)~~ Identify NRO capabilities that may address the HDBT problem
- f. ~~(S//NF)~~ Disseminate HDBT needs, requirements and information within organizations/offices
- g. ~~(S//NF)~~ As required, involve other members of their organizations as subject matter experts to address action items

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