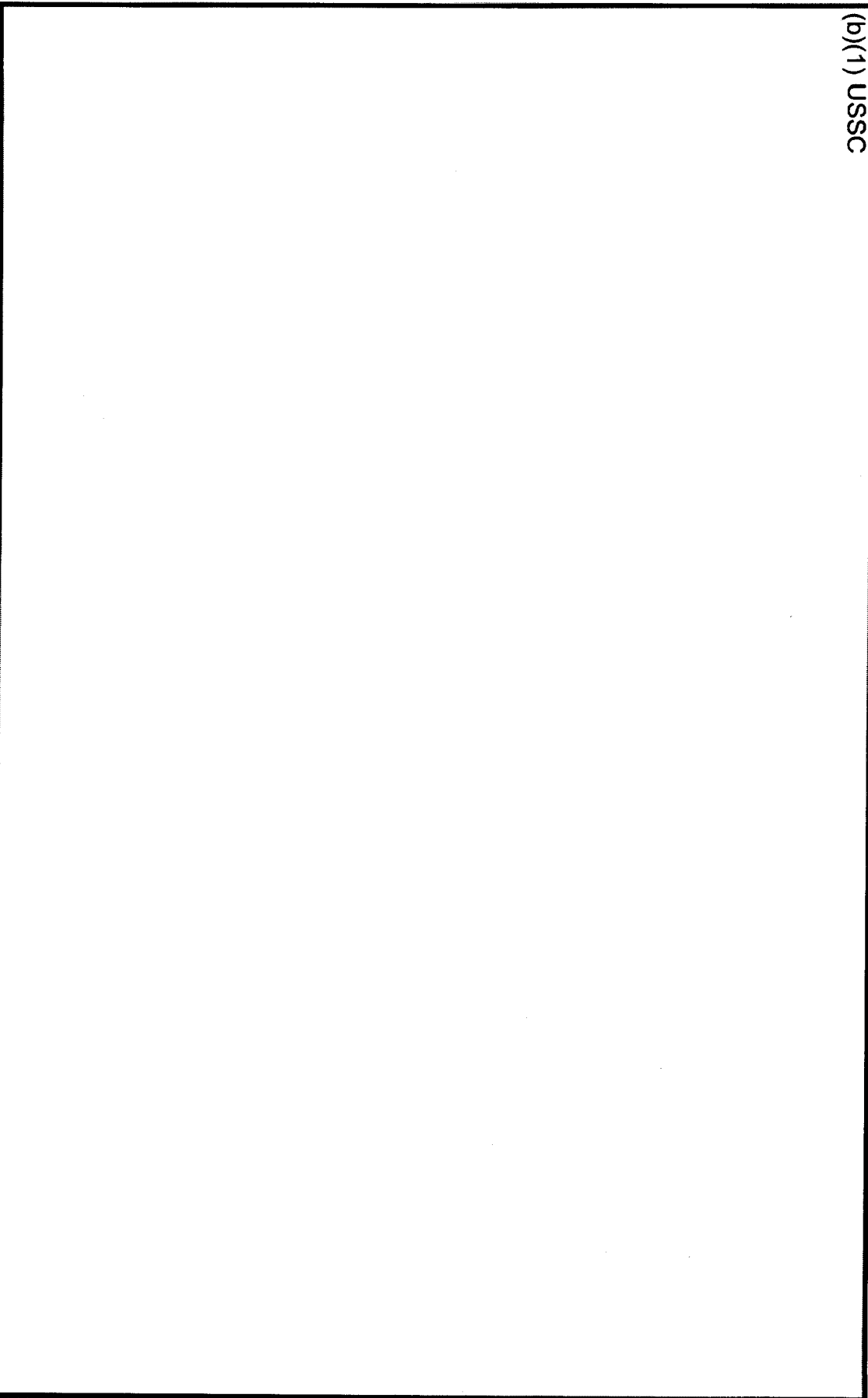




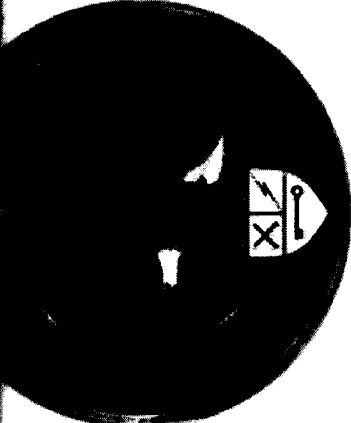
Iranian Attack Statistics

(b)(1) USSC



Classified By: alperpe
Derived From: USCYBERCOM SCG
Dated: 20111011
Declassify On: 20380801

(b)(1)



USCYBERCOM

Team Cyber Update (Iran)

14 March 2013

The overall classification of this briefing is: ~~TOP SECRET//^{(b)(1)}//NOFORN~~

Classified By: alperpe Derived From: USCYBERCOM SCG Dated: 20111011 Declassify On: 20370801

(b)(1)

TOP SECRET//NOFORN



Team Cyber Updates

Military C2

(b)(1) USSC

[Redacted content]

Anti-Access

(b)(1) USSC

[Redacted content]

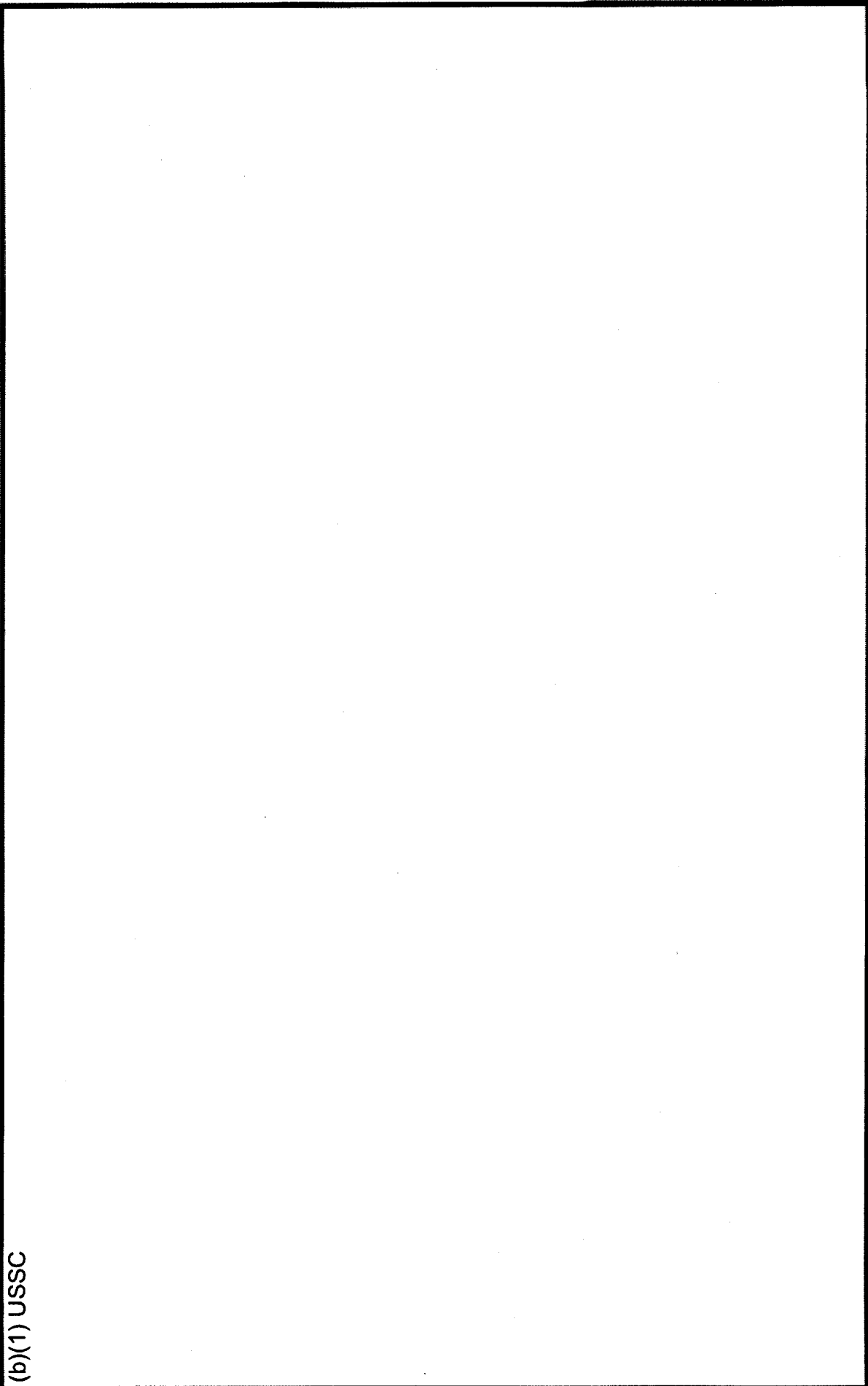
(b)(1)

[Redacted content]

(b)(1)

Team Cyber Updates

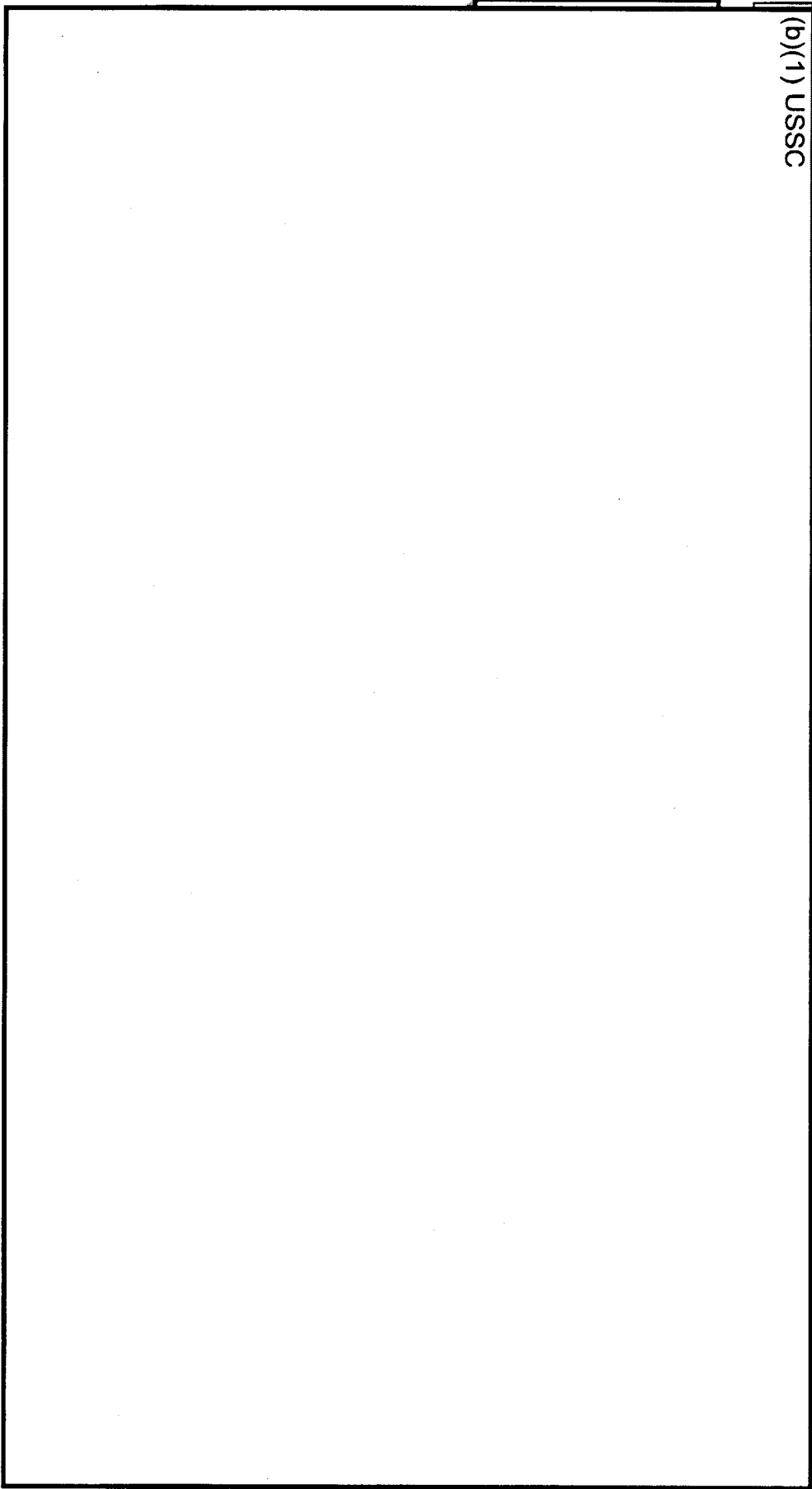
(b)(1) USSC



(b)(1)

Team Cyber Updates

(b)(1) USSC



(b)(1)

TOP SECRET

(b)(1)

(b)(1)

Iranian Cybersecurity Threats

(b)(1) USSC

(b)(1) USSC

(b)(1)

Planning

(b)(1) USSC (b)(1) USSC

• (U) Limited Scope (S//REL USA, FVEY) (b)(1) USSC

(b)(1) USSC

– (TS//REL USA, FVEY) (b)(1) USSC

(b)(1) USSC

• (b)(1) USSC

(b)(1) USSC

– (U) NSS and JS are currently (b)(1) USSC

with Inter Agency.

– (TS//REL USA, FVEY) (b)(1) USSC

– (TS//REL USA, FVEY) (b)(1) USSC

(b)(1) USSC

• (U) Malware

– (TS//REL USA, FVEY) (b)(1) USSC

(b)(1) USSC

– (S//REL USA, FVEY) (b)(1) USSC

(b)(1) USSC

[REDACTED]

(b)(1)

[REDACTED]

(b)(1) USSC

[REDACTED]

(b)(1) USSC

[REDACTED]

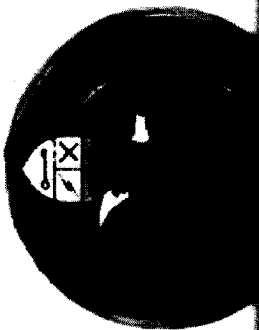
(b)(1) USSC

[REDACTED]

(b)(1)

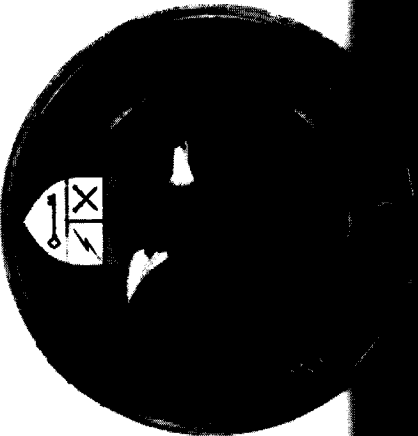
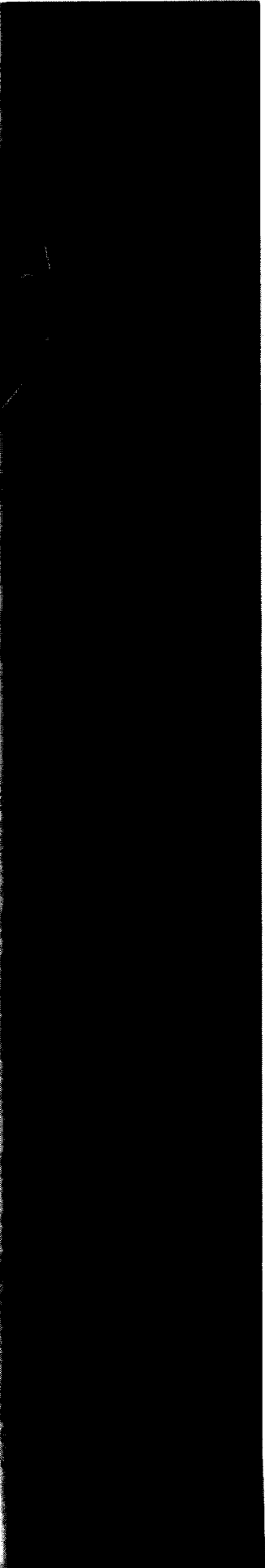
(b)(1)

Questions



UNCLASSIFIED

(b)(1)



Congress Storyboard

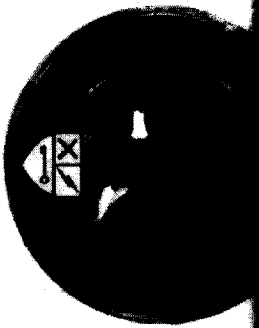
Draft v22

The overall classification of this briefing is: ~~TOP SECRET~~ (b)(1) ~~UNFOU~~

~~Classified By: ecrocke
Derived From: USCYBERCOM SCG
Dated: 20111011
AND
Derived From: NSA/CSSM 1-52
Dated: 20070108
Declassify On: 20371201~~

Agenda

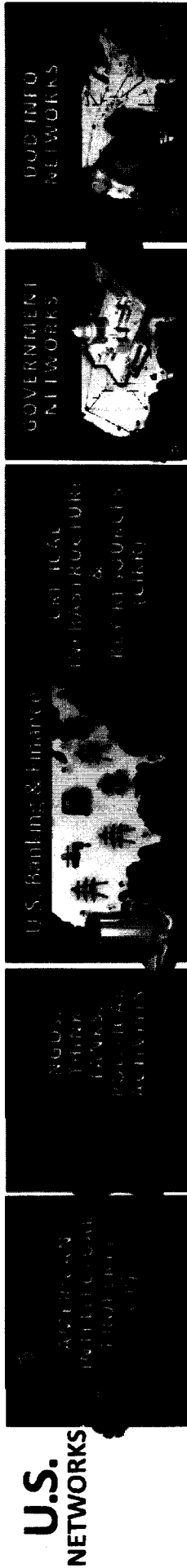
- Adversary Activity and Capabilities
- How the Adversary Fights
- How We Fight
- Cyber Forces We Need for the Fight
- Maintaining Our Strategic Advantage



Adversary Activity and Capabilities

Overview of Adversary Activity DRAFT

(b)(1) USSC



CNE, CNA capabilities & unknown activity

(b)(1) USSC

(b)(1) USSC

(S//REL)

(b)(1) USSC

(b)(1) USSC

(b)(1) USSC

Graphic: (TS//(b)(1))

~~TOP SECRET (b)(1) REF TO USA, FVEY~~

~~TOP SECRET (b)(1) REF TO USA, FVEY~~



(b)(1) USSC

(b)(1) USSC

~~TOP SECRET (b)(1) REF TO USA, FVEY~~



(b)(1) USSC

• (b)(1) USSC

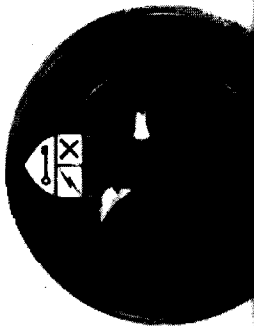
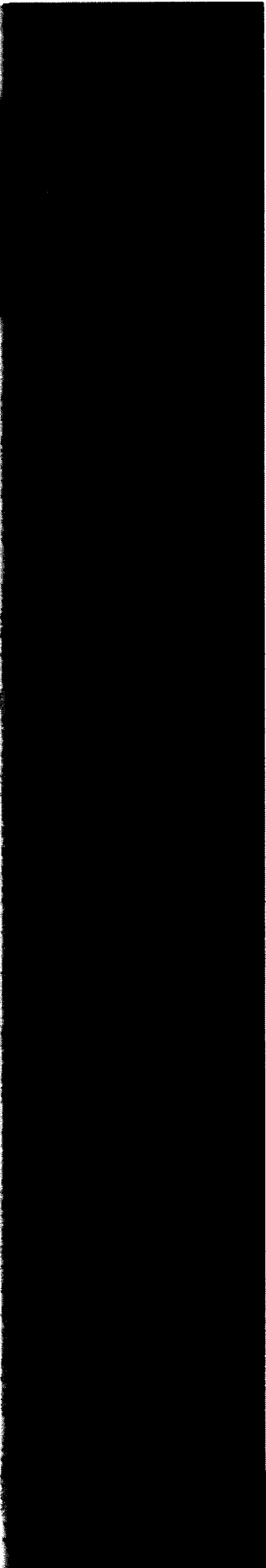
[Large redacted area]

(b)(1) USSC



(b)(1) USSC

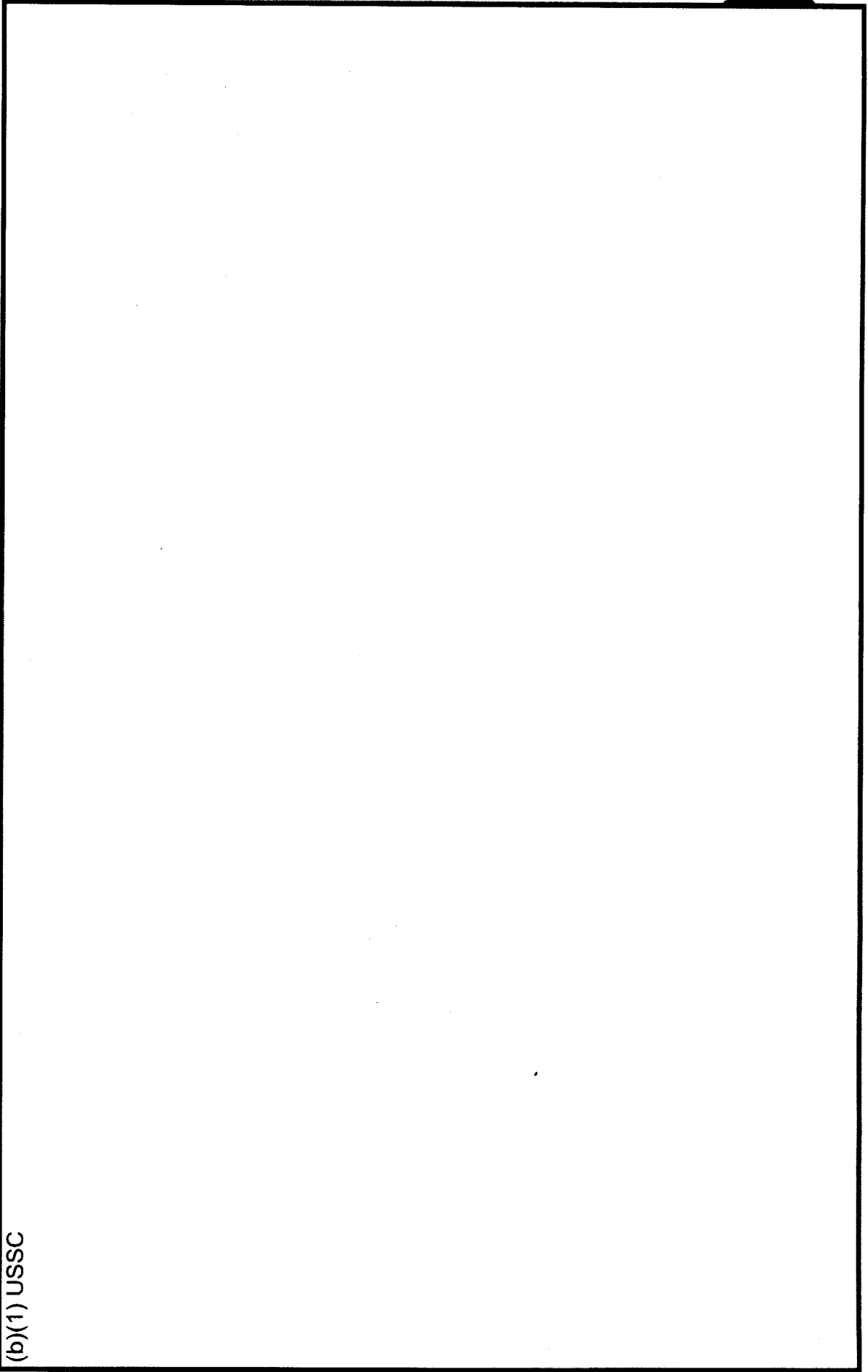
[Redacted content]



How The Adversary Fights

The Anatomy of a DDoS Attack

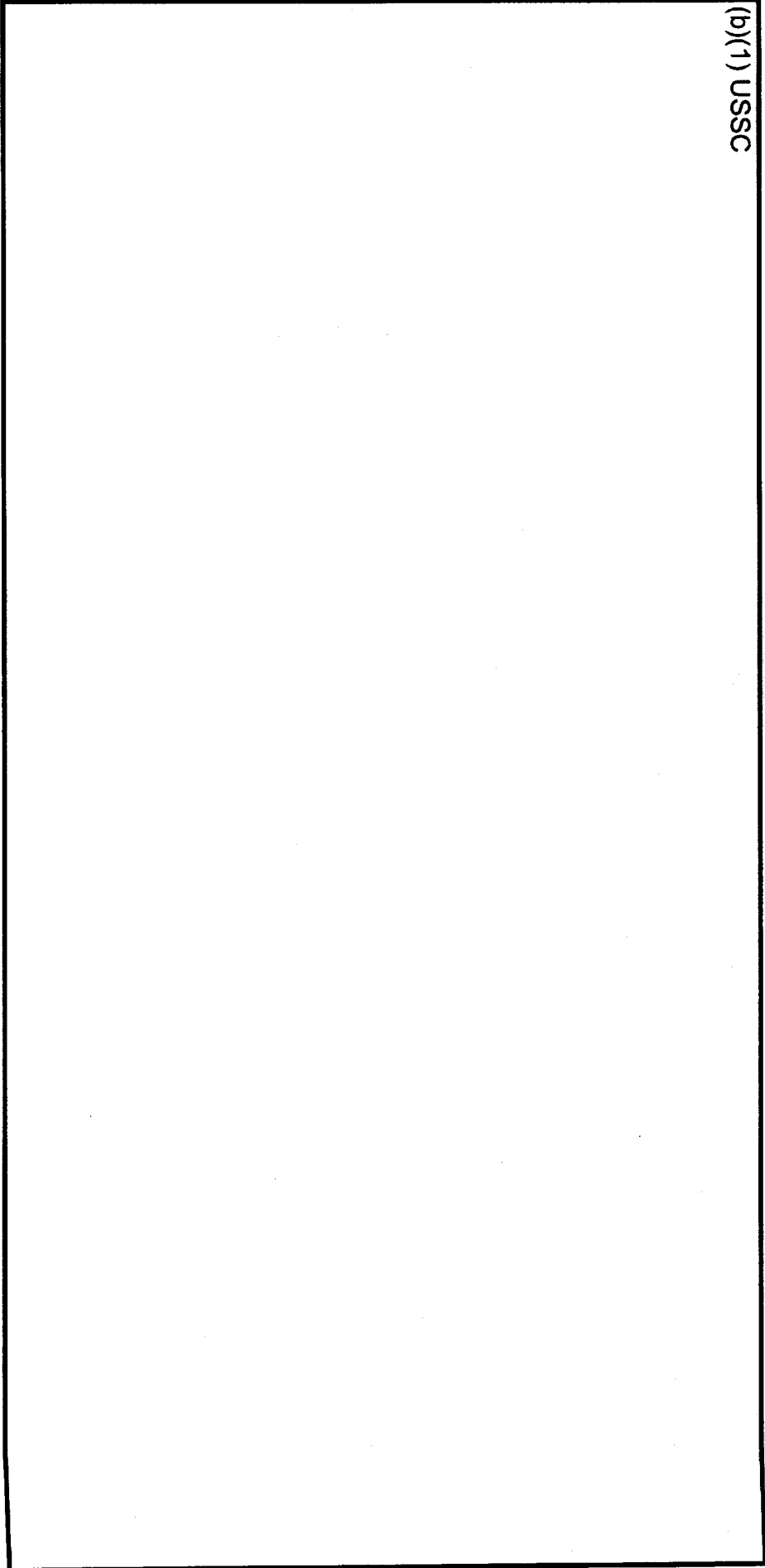
(b)(1) USSC

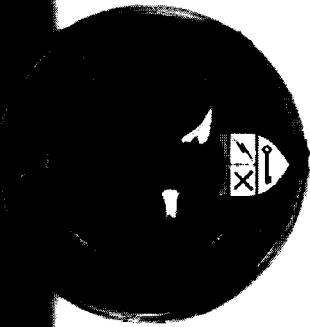
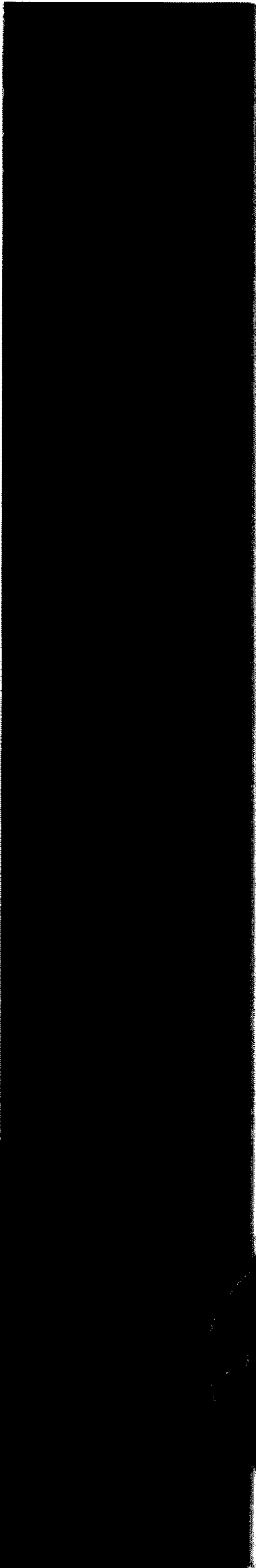




Key Terrain of the Fight

(b)(1) USSC



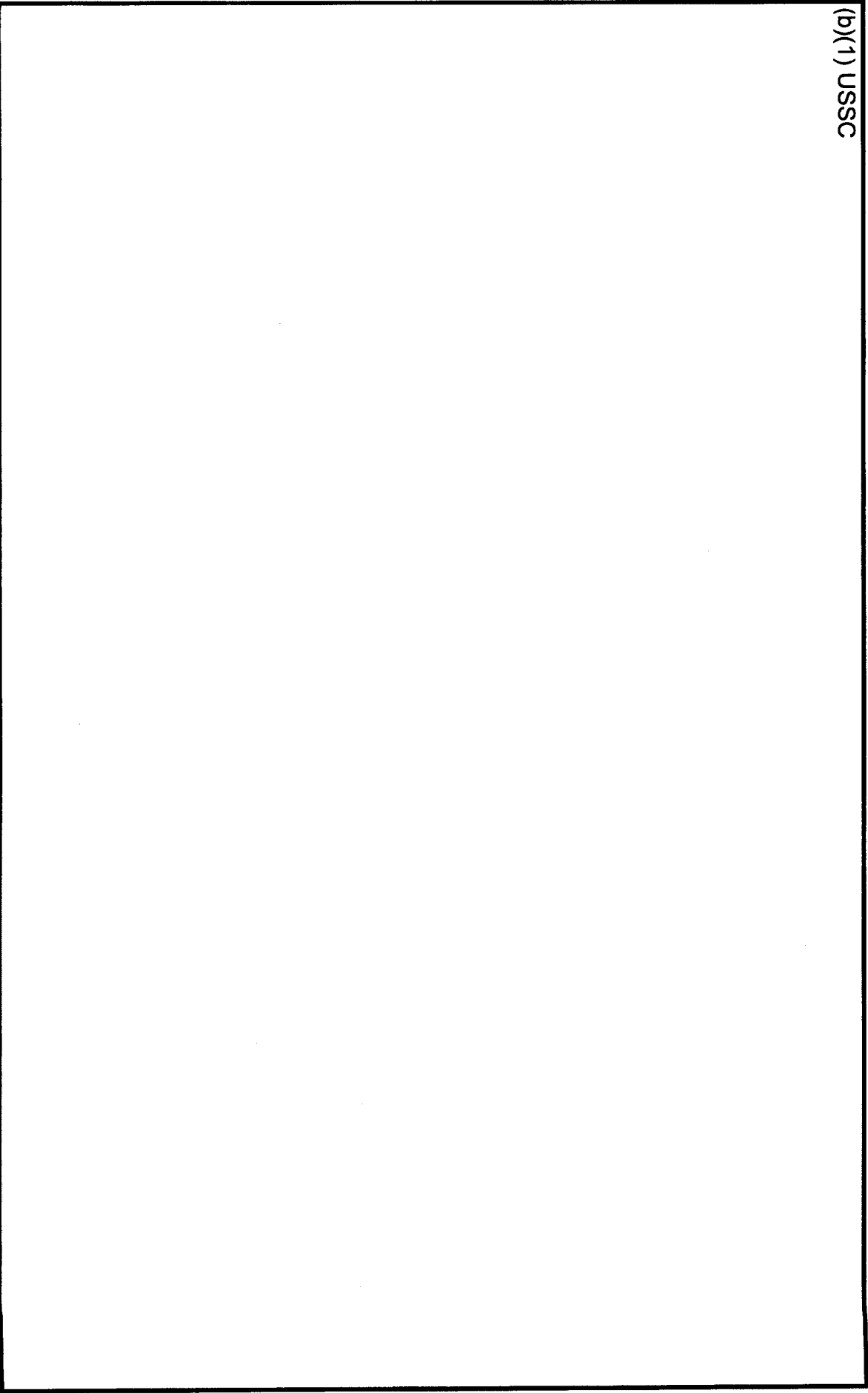


How We Fight



(U) Cyber Options Against Key Terrain

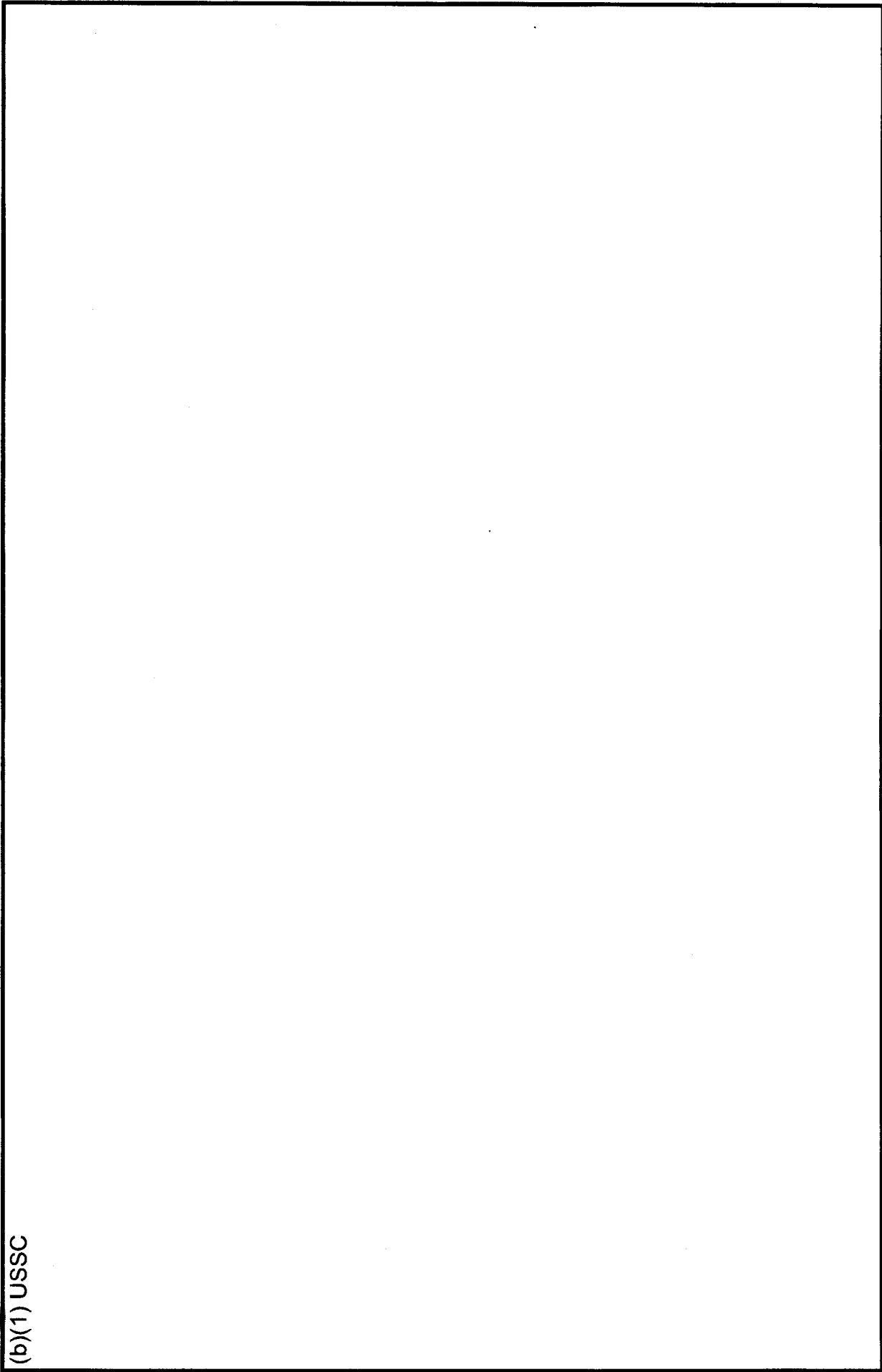
(b)(1) USSC

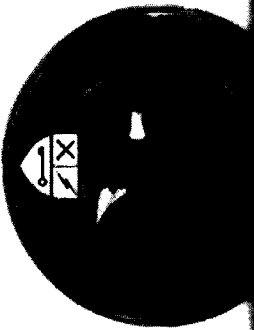




Force on Force – National Mission Fight

(b)(1) USSC





Cyber Forces We Need for the Fight

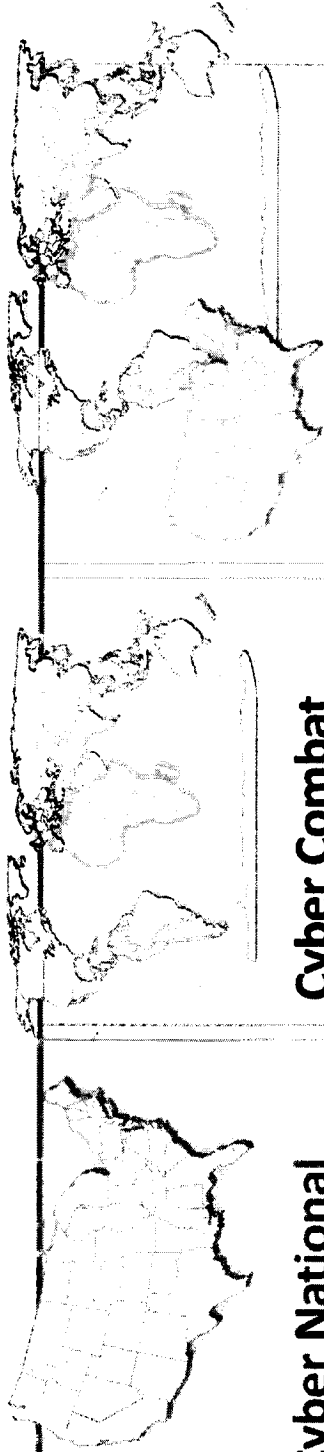


Cyber Mission Forces

USCYBERCOM Operational Focus Areas

Supports Lines of Effort

Strategic Defense Against Offensive Cyber Attack
Integration into CCMD Contingency and Operational Plans
Operating and Defending DoD Infrastructure (DODIN)



USCYBERCOM Forces

Trained, certified and operates as a team

Cyber National Mission Forces (CNMF)

Defend the nation by Seeing adversary activity, Blocking attacks and Maneuvering to defeat them

Cyber Combat Mission Forces (CCMF)

Conduct military cyber operations in support of combatant commands

Cyber Protection Forces (CPF)

Defend DoD Information Networks (DODIN) and, when authorized, other infrastructure.

NSA Reach Back
Supports CNMF & CNMT

NSA General Support
Provides support as a whole to USCYBERCOM forces

Solves specific operational challenges. Provides high value, low density skill sets.

Global Cryptologic Platform

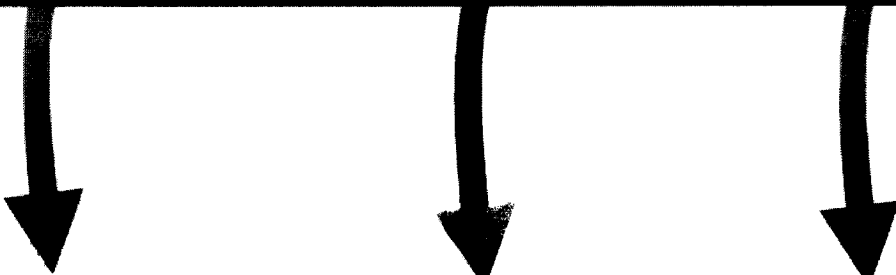


All teams must be trained in cyber basics to surge to other teams when needed.

Cyber Mission Forces

(b)(1) USSC

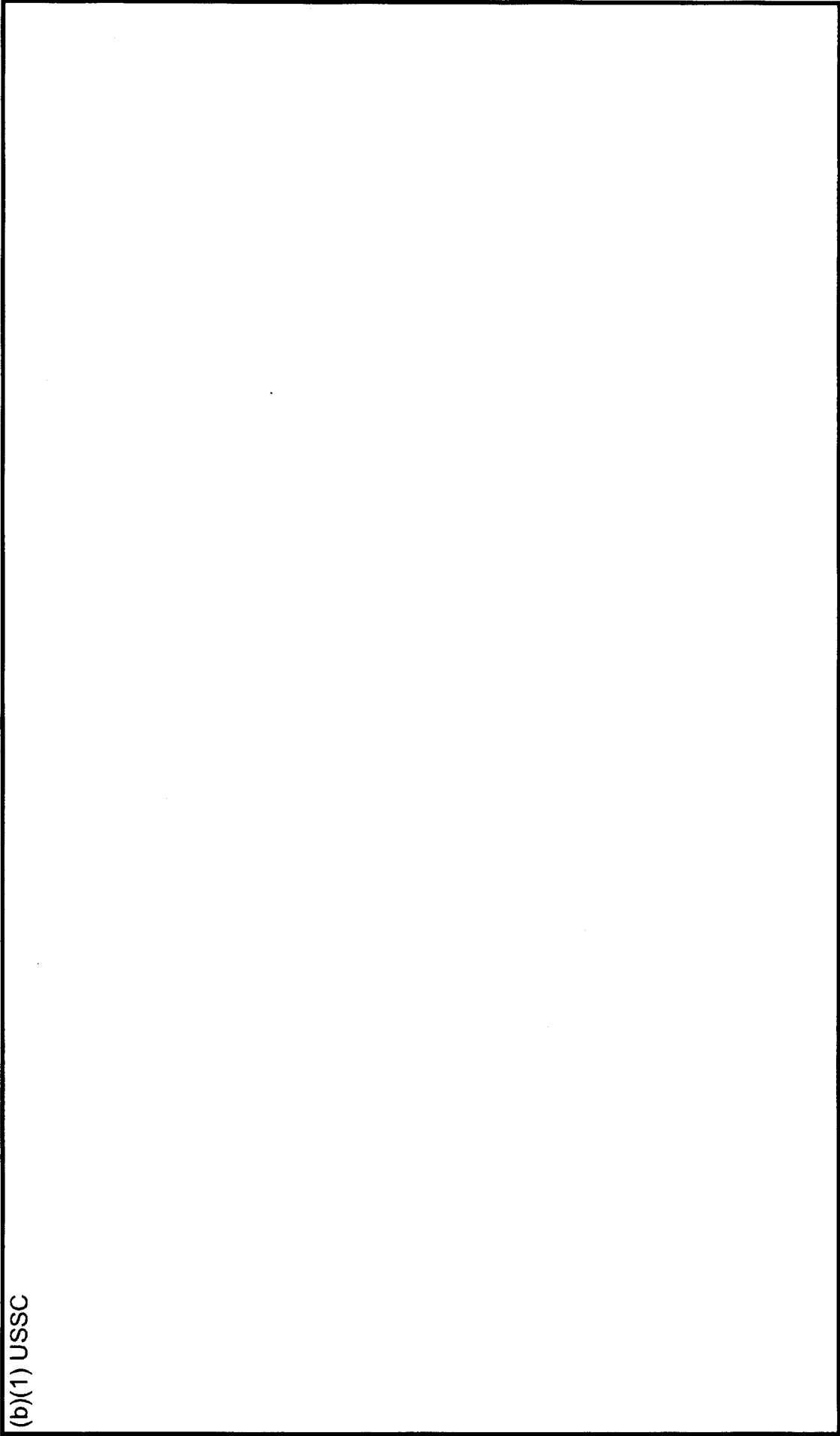
(b)(1) USSC





How We Employ Forces Against Key Terrain

(b)(1) USSC



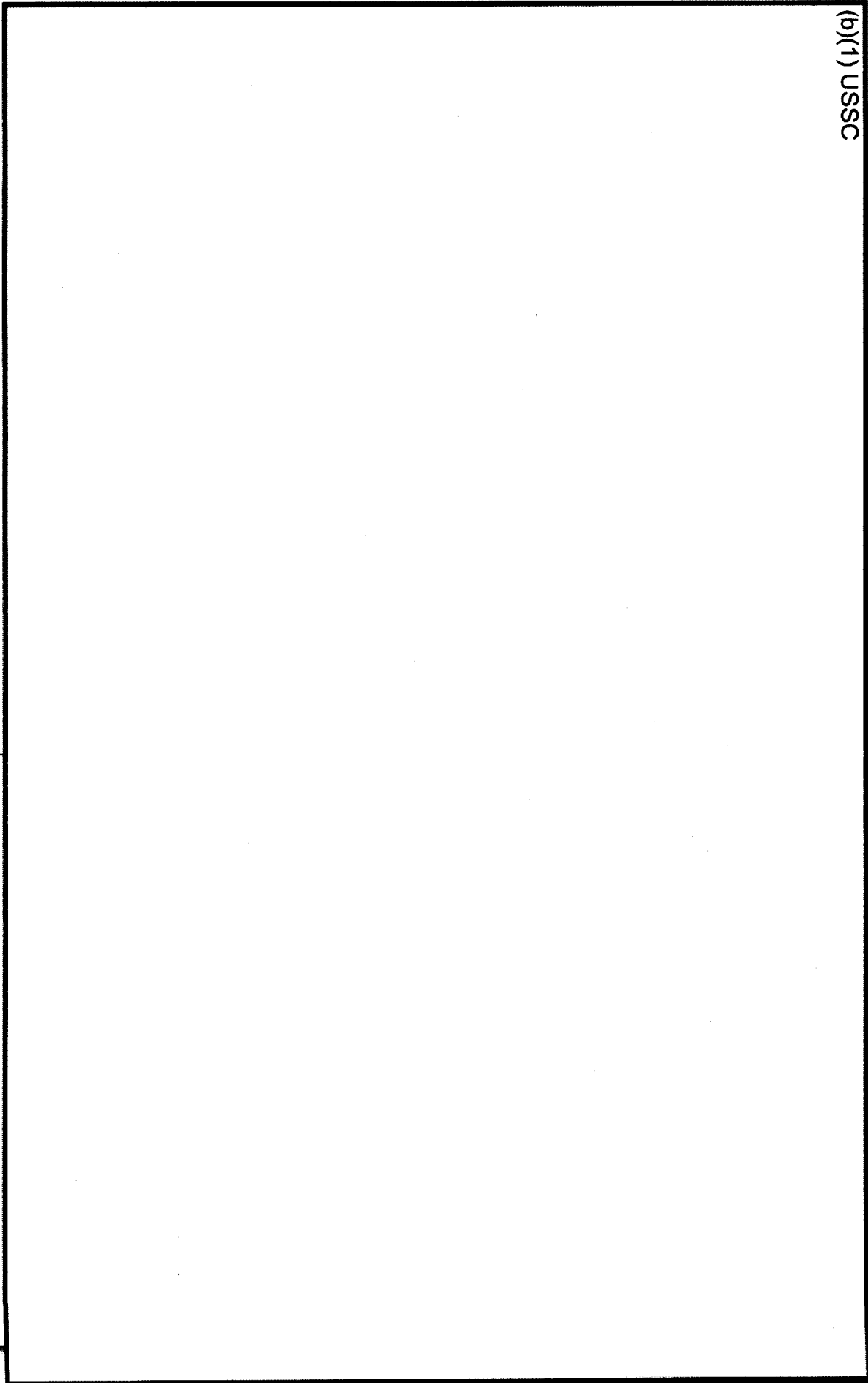


(b)(1) USSC

DRAFT - PRE-DECISIONAL

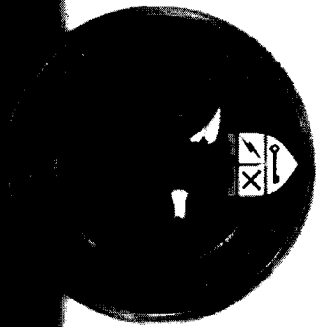
SECRET//REL TO USA, FVEY

(b)(1) USSC



SECRET//REL TO USA, FVEY

Maintaining Our Strategic Advantage





(U) We Cannot Fight If We Cannot See

(b)(1) USSC

Logical to Physical (U)

Geolocation of adversary's networks and key nodes, shows relationships between connections in cyber and in physical world

Networks (U)

Enables planning, operations and deconfliction

Geographic Terrain (U)

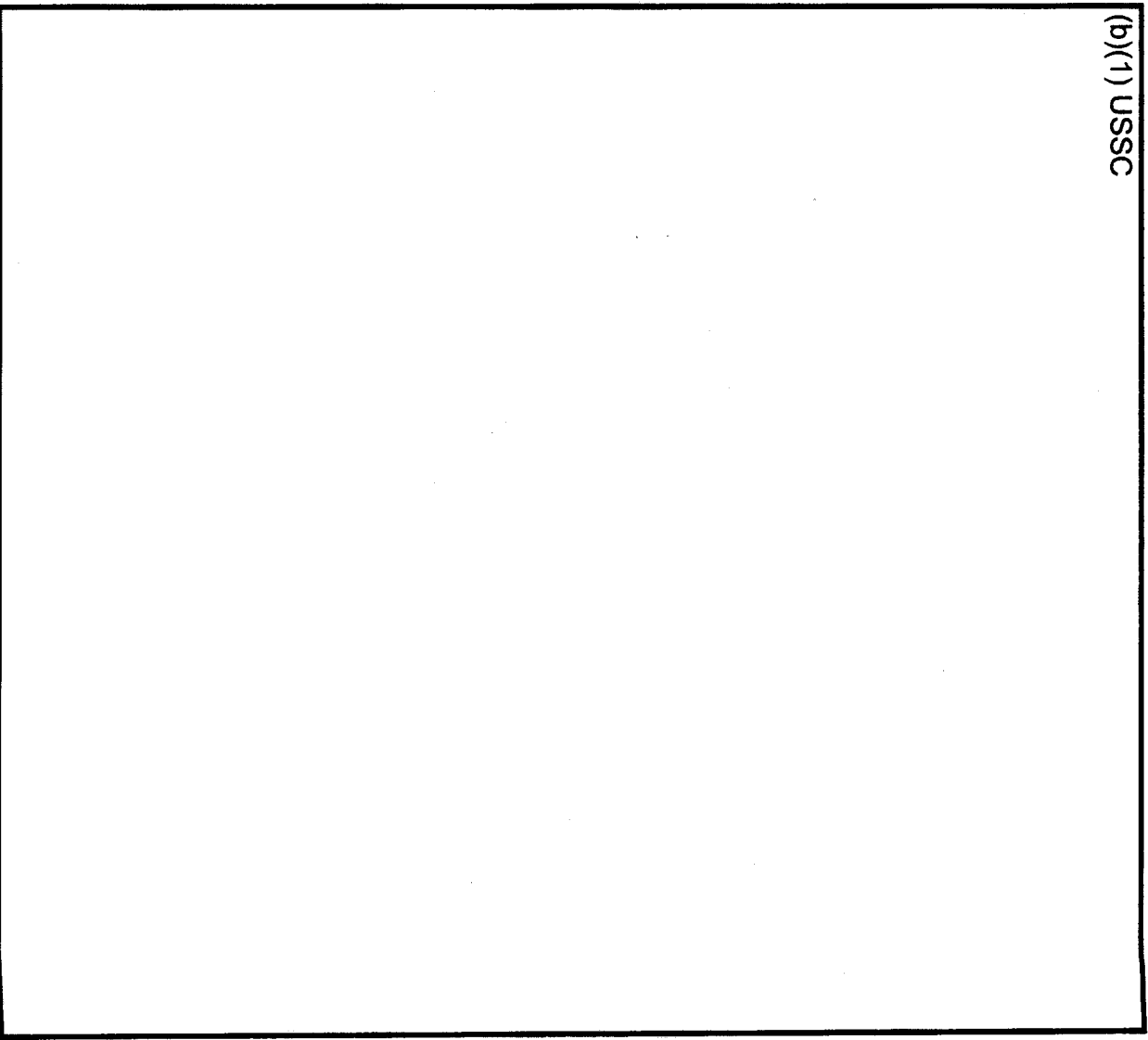
Critical infrastructure, key actors and key resources

Real-Time Visibility (U)

Networks, adversary attacks, C2 nodes, botnets

(b)(1) USSC (S//REL)

(b)(1) USSC



We Must Integrate Missions and Organizations to Meet the Threat

PERSISTANT & GROWING THREAT

Exploitation

- (U) 2007 -Hacking (Oak Ridge National Laboratory)
- (U) 2008 - Hacking into classified networks (Buckshot Yankee)

- (U) 2007 - DDoS (Georgia)
- (U) 2010 - Cyber Attack (STUXNET)
- (U) 2011 - Cyber Attack (Nasdaq)
- (U) 2011 - Network Intrusion (RSA)

Disruption

- (U) 2012 Cyber Attack (ARAMCO - 30,000+ computers destroyed)
- (U) 2011-Present DDoS Attacks (Financial Sector)
- (TS//~~(b)(1)~~)

(b)(1) USSC

Destruction

INTEGRATION OF MISSIONS & ORGANIZATIONS

Cyber Operations Using (b)(1) USSC

Cyber Military Planning & Offensive OPS Operating & Defending DoD Networks

Integrated Offense & Defense

2004-2005

JTF-GNO & JFCC-NW established as separate commands



2008

JTF-GNO OPCON to JFCC-NW for control under one Commander



2010

USCYBERCOM Activated as Sub-Unified Command



Set Standards for Building, Training & Employing the Force
Identification, Prioritization & Allocation of Cyber Capability Requirements

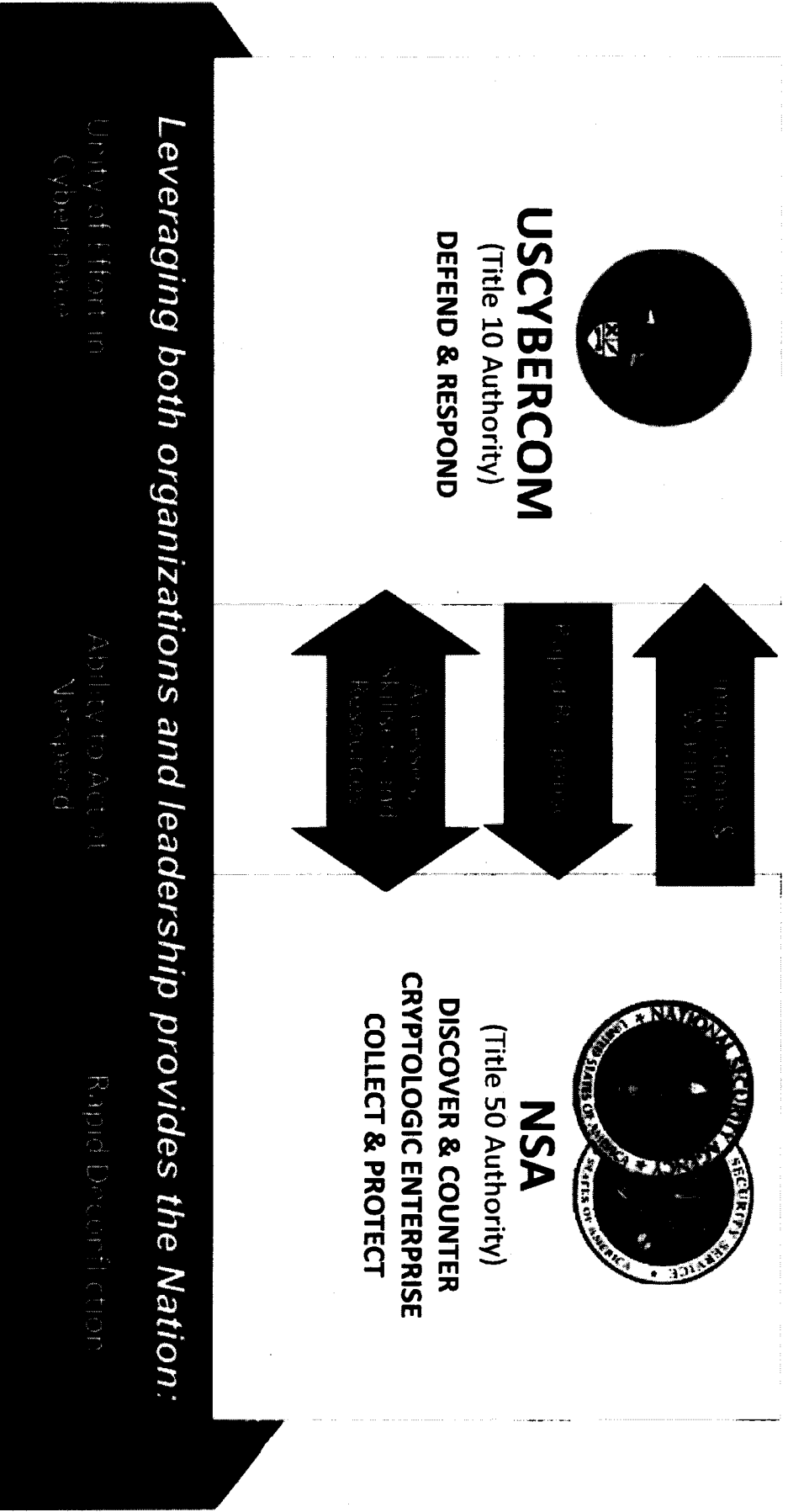
2013

When directed, USCYBERCOM Activated as Unified Command



We Must Fully Leverage the Capabilities of USCYBERCOM & NSA for the Nation

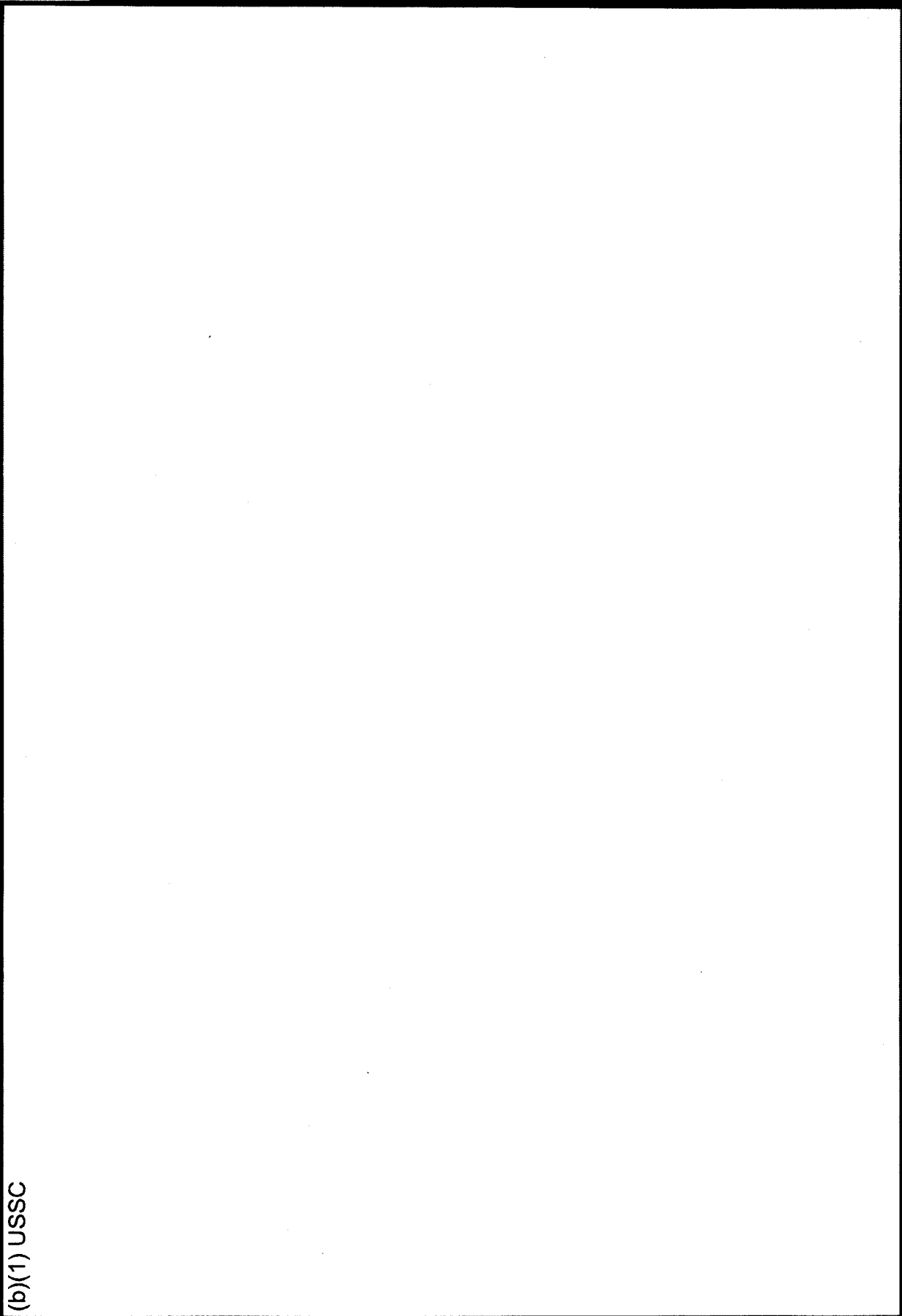
UNCLASSIFIED



(b)(1) USSC

We Must Synchronize and Deconflict Operations

(b)(1) USSC



01/11/2013 9:39 AM

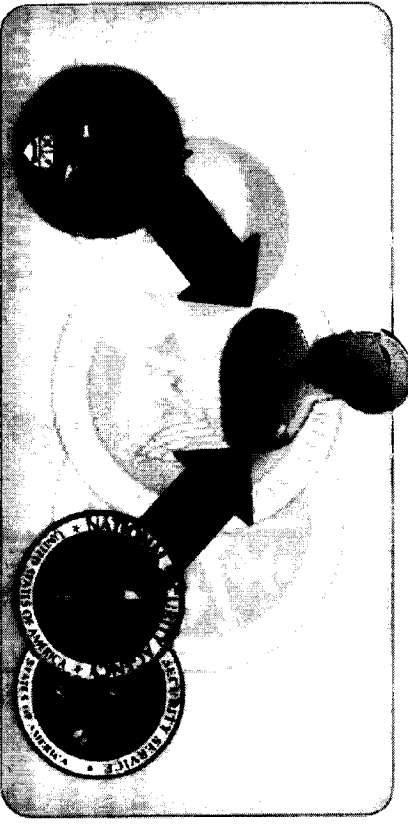


Ability to Act Enabled by

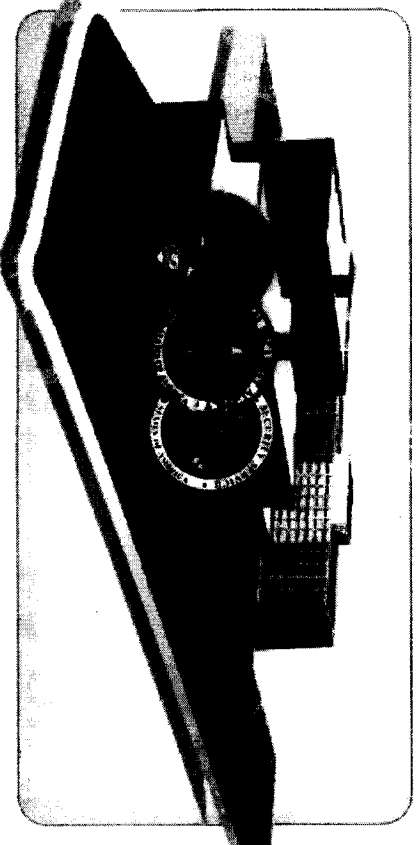
**Unified
Command**



**Dual-Hatting of CDR USCYBERCOM
and DIRNSA**



**Coordination with
Co-Location**



**Information Sharing with
Private Sector & Protecting
Civil Liberties**

