

(S) For Official Use Only Scenario #1

- Set up
- Location

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(S) For Official Use Only Scenario #2

- Set up
- Location

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CELL/BTD 004395


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StingRay Lab Exercises

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StingRay Lab Exercises


- Goal —
- Agenda

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CELL/GTD 00A396

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StingRay Field Exercises




1

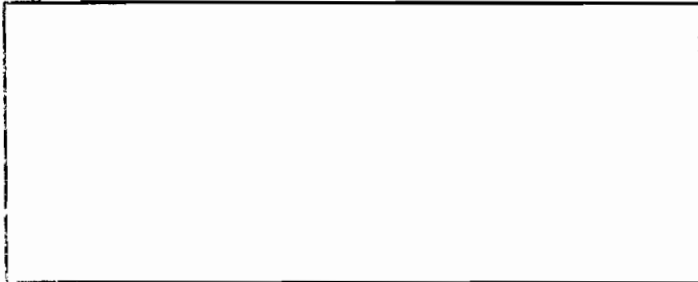
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StingRay Field Exercises

Goal - 

- Agenda 

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Scenario #3

- Set up
- Location

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Scenario #4

- Set up
- Location

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Useful Acronyms



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ACRONYMS

- AMPS** – Advanced Mobile Phone Service
- BSC** – Base Station Controller
- BSID** – Base Station ID
- BTS** – Base Transceiver Station
- CDMA** – Code Division Multiple Access
- DSSS** – Direct Sequence Spread Spectrum
- DF** – Direction Finding
- ESN** – Electronic Serial Number
- FDMA** – Frequency Division Multiple Access
- GSM** – Global Standard for Mobile Communication
- HLR** – Home Location Register
- IDEN** – Integrated Dispatch Enhanced Network
- IMEI** – International Mobile Equipment Identity
- IMSI** – International Mobile Subscriber Identity
- MIN** – Mobile Identification Number
- MSC/MTSO** – Mobile Switching Center/ Mobile Telephone Switching Office
- NID** – Network Identification

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Acronyms Cont'd

PA - Power Amplifier
PCS - Personal Communications Service
PN - Pseudo Noise
PSIN - Public Switched Telephone Network
PTT - Push-to-Talk
RF - Radio Frequency
SID - System Identification
TDMA - Time Division Multiple Access

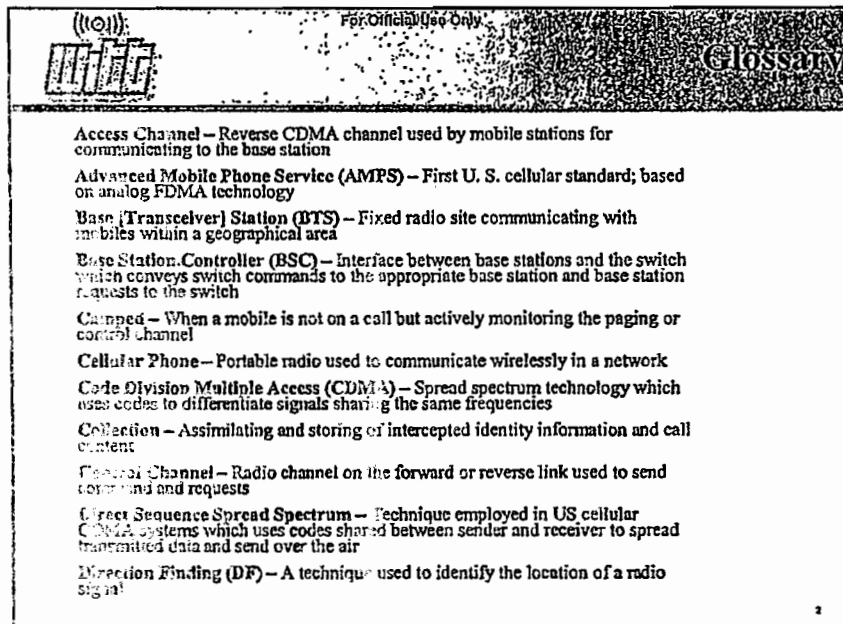
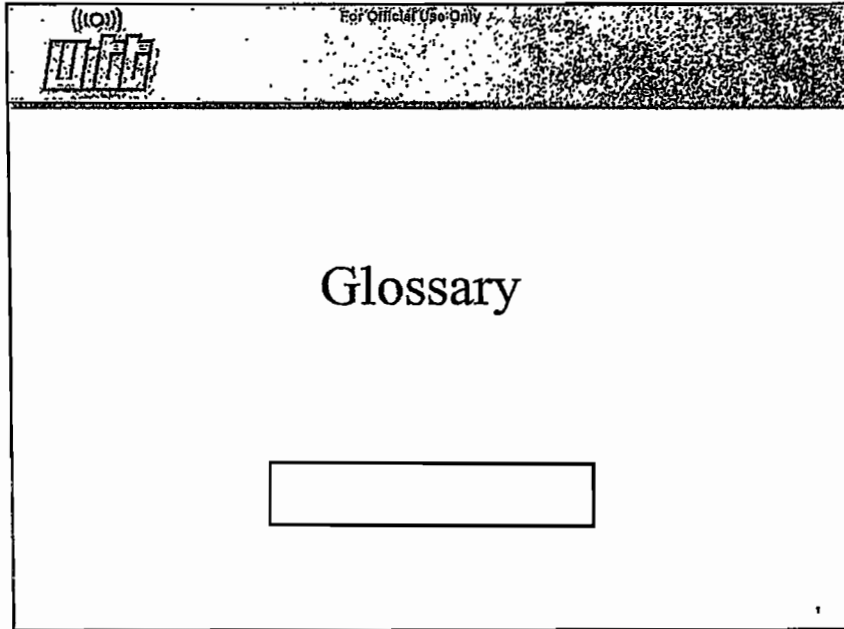
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TMSI - Temporary Mobile Subscriber Identity
VLR - Visitor Location Register
WIIT - Wireless Intercept & Tracking Team

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CELL/OTD 004401

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Glossary Cont'd

Downlink - See Forward Link

E_c/I_o - Ratio (in dB) between the Pilot Channel signal energy and the total interference in the received bandwidth

Electronic Serial Number (ESN) - Unique serial number programmed into the memory of a mobile phone by the manufacturer

Forward Link - From the base station to the mobile

Frequency Division Multiple Access (FDMA) - Multiplexing technique which uses frequency to distinguish users

Global Standard for Mobile Communications (GSM) - Cellular technology utilizing TDMA techniques which originated in Europe

Home Location Register (HLR) - Database containing mobile subscriber information for locally registered mobiles

Idle - See Camped

Integrated Dispatch Enhanced Network (iDEN) - Proprietary cellular technology utilized by Nextel

Intercept - Reception of communications between a subject and his serving network

International Mobile Equipment Identity (IMEI) - Code uniquely identifying the mobile station hardware

International Mobile Subscriber Identity (IMSI) - Method of identifying stations in the land mobile service

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Glossary Cont'd

Handoff - Transferring communication with a mobile station from one base station to another

[Redacted]

Long PN Code - 42-bit pseudo-random code used to uniquely identify CDMA mobile stations on the uplink

Mobile Identification Number (MIN) - Telephone number associated with a mobile phone

Mobile Station - See Cellular Phone

Mobile Switching Center (MSC) - Switch connecting the cellular network to the PSTN which coordinates call routing in a given service area

Mobile Telephone Switching Office (MTSO) - See Mobile Switching Center

Multibeam - Radio signals from the transmitter arriving at the receiver via a number of different paths

Neighbor Channel - One of a group channels that are probable candidates for handoff


Network Identification (NID) - Number uniquely identifying a network within a cellular system

Paging Channel - Walsh code channel in the CDMA forward channel used for transmission of control information and pages from the base station to the mobile

Pilot Channel - Signal transmitted continuously by CDMA base stations allowing mobiles to acquire base station timing and assess signal quality

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Glossary Cont'd

PN Code Offset – One of 512 time offset versions of the Short PN Code used to identify CDMA base station sectors in a network

Power Amplifier (PA) – Provides gain in a transmitter

Public Switch Telephone Network (PSTN) – Collection of interconnected voice-oriented public telephone networks

Radio Frequency (RF) – Radio signals between 9 kHz-300 GHz

Registration – Process by which a mobile station identifies its location and parameters to a base station

Reverse Link – From the mobile to the base station

Short PN Code – 15-bit pseudo-random code used to uniquely identify CDMA base station sectors in a network

Short PN Code Offset – See PN Code Offset

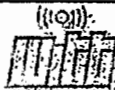
Synch Channel – Walsh code channel 32 in the CDMA forward channel which transports the synchronization message to the mobile

System Identification (SID) – Number uniquely identifying a cellular system

Temporary Mobile Station Identity (TMSI) – Temporary mobile station identification assigned by the base station

Time Division Multiple Access (TDMA) – Multiplexing technique which uses frequency and time to distinguish users

Traffic Channel – Communicating path between a mobile station and base station used to transport call content and commands


For Official Use Only
Glossary Cont'd

Uplink – See Reverse Link

Visitor Location Register (VLR) – Database containing mobile subscriber information for mobiles active in the local system but registered in another cellular system

Walsh Codes – 64 orthogonal codes used to define CDMA communication subchannels on the forward link

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CONOPS Case Studies

[Redacted]

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Recent Case Studies - Sample Case 1

Background:

- WITT contacted to help [Redacted]

[Redacted]

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CELL/OTD 004404

(IQ) For Official Use Only

Recent Case Studies – Sample Case 2

Background: • WITT contacted to help [redacted]

[redacted]

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(IQ) For Official Use Only

Recent Case Studies – Sample Case 3

Background: • WITT contacted to help [redacted]

[redacted]

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CELL/OTD 004405

(FOUO) For Official Use Only
Recent Case Studies - Sample Case 4

Background:

• WITT contacted to help [redacted]

[redacted]

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FEDERAL BUREAU OF INVESTIGATION
FOI/PA
DELETED PAGE INFORMATION SHEET
FOI/PA# 1226796-0

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[Redacted]

(FBI)

From: [Redacted] (OTD) (FBI)
Sent: Wednesday, May 16, 2007 9:23 AM
To: [Redacted]

Subject: [Redacted]

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UNCLASSIFIED
NON-RECORD

I have contacted Harris and they are looking into the situation. This was looked into as part of [Redacted]

[Redacted]

I'll forward their (Harris) answer to all.

[Redacted]

-----Original Message-----

From: [Redacted]
Sent: Monday, May 14, 2007 1:09 PM
To: [Redacted]

Cc:
Subject: [Redacted]

UNCLASSIFIED
NON-RECORD

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[Redacted]

UNCLASSIFIED

UNCLASSIFIED

CELL/OTD 000999

[Redacted] (OTD) (FBI)

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From: [Redacted] (OTD) (FBI)
Sent: Thursday, July 05, 2007 10:30 AM
To:

[Redacted]

Cc:
Subject: 2007 WITT Conference (Cell Phone Tracking)

UNCLASSIFIED
NON-RECORD

Comrades,

Last week I attended the 2007 WITT Conference. Many cell tracking matters were discussed. Since we all hate e-mail, I am going to pick the top 15 bullets and try to keep it short. Please feel free to forward this info to [Redacted] [Redacted] And if you don't want to read it, you don't hurt my feelings.

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[Redacted]

[Redacted] (OTD) (FBI)

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From: [Redacted]
Sent: Monday, April 16, 2007 10:48 AM
To: [Redacted]
Cc: [Redacted]
Subject: [Redacted]

SENSITIVE BUT UNCLASSIFIED
NON-RECORD

[Redacted]

Thanks for taking the initiative to help the office out with this service. mpk

SSA [Redacted]
[Redacted]

b6
b7C

-----Original Message-----

From: [Redacted]
Sent: Thursday, April 12, 2007 2:21 PM
To: [Redacted]

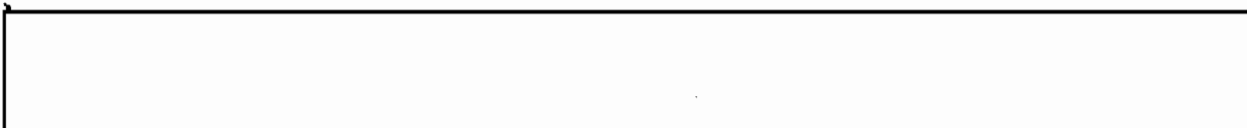
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b3

Subject: [Redacted]

For those of you who send out administrative subpoenas for telephone subscriber information, [Redacted]

[Redacted] As most of you are aware, a consumer is entitled to take their phone number to any phone company they so choose. [Redacted]

[Redacted]



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<< File  EC.wpd >>



SENSITIVE BUT UNCLASSIFIED

CELL/OTD 000993

[Redacted]

(OTD) (FBI)

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From:
Sent:
To:

[Redacted]

Friday, April 27, 2007 10:14 AM

[Redacted]

Cc:

Subject:

New [Redacted] for StingRa [Redacted]

UNCLASSIFIED
NON-RECORD

Please note that the installation guide to upgrade your Harris equipment is included [Redacted] if you are experiencing difficulty whereby the [Redacted] please contact and email us the serial number of your equipment [Redacted]

b6
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[Redacted] Stingray [Redacted]

[Redacted] Harris [Redacted]

[Redacted] We will provide a workaround solution to those limited few that experience this problem.

[Redacted]

UNCLASSIFIED

CELL/OTD 000994

b3
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[Redacted]

From:
Sent:
To:

[Redacted]

Monday, April 30, 2007 10:08 AM

[Redacted]

Subject:

Additional info on [Redacted] for StingRay [Redacted]

UNCLASSIFIED
NON-RECORD

Please attempt to perform the install of the [Redacted] StingRay [Redacted] unit first before updating the [Redacted] step as described below, then [Redacted] and report to us the problem and provide us the serial number of your equipment. Do not attempt to [Redacted] is not successful.

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[Redacted]

Please report to WITT when the [Redacted] is completed so that we can document the procedure. Offices that do not report in will be assume to have not completed [Redacted]

Thanks.

[Redacted]

-----Original Message-----

From:
Sent:
To:

[Redacted]

Friday, April 27, 2007 10:14 AM

[Redacted]

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CELL/OTD 000995

Cc: [redacted]
Subject: New [redacted] for StingRay [redacted]

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b7C
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UNCLASSIFIED
NON-RECORD

Please note that the installation guide to upgrade your Harris equipment is included [redacted] if you are experiencing difficulty whereby the [redacted] please contact and email us the serial number of your equipment. [redacted]

[redacted]

[redacted] We will provide a workaround solution to those limited few that experience this problem.

[redacted]

UNCLASSIFIED

UNCLASSIFIED

CELL/OTD 000996

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From: [redacted]
Sent: Wednesday, May 09, 2007 1:22 PM
To: [redacted]

Subject: [redacted] and other guidance)

SENSITIVE BUT UNCLASSIFIED
NON-RECORD

FYI

Just passing on some information about using a [redacted]
[redacted] if you all have time to verify some of the below information, please do so. Feedback is the best way to figure out where the loop-holes are.

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[redacted]

- This means that you should not incur the [redacted]

- I verified the above information on the [redacted] if you have a chance to buy some [redacted] and are able to do the same kind of testing, please do and send feedback [redacted]

[redacted]

- [redacted]
- [redacted]

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Thanks to everyone involved so far.

[redacted]

CELL/OTD 000997



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SENSITIVE BUT UNCLASSIFIED

CELL/OTD 000998

CELL/OTD 027706

CELL/OTD 028079

FBICELL-243

23-Mar Travel (Arrive)
 Inform Coordinator of arrival / issues
 Equipment Delivery
 24-Mar 830 Arrive / Introductions
 900 Scenario Description 5
 Goals / Objectives 10
 Pre-Deployment Functions 5
 1000 Break
 1015 [Redacted]
 1100 [Redacted]
 1200 Lunch (1.5 HOURS)
 1330 [Redacted]
 1430 [Redacted]
 1530 [Redacted]
 1630 [Redacted]
 25-Mar 830 Arrive / Issues
 900 [Redacted]
 1100 [Redacted]
 1200 Lunch (1.5 HOURS)
 1330 [Redacted]
 1630 [Redacted]
 26-Mar 830 Arrive Station
 ?? [Redacted]
 27-Mar 830 [Redacted]
 ?? [Redacted]
 28-Mar 1200 Lunch (1.5 HOURS) [Redacted]
 2100 Event [Redacted]
 29-Mar NO EVENT
 30-Mar 830 Arrive / Issues
 900 [Redacted]
 1100 [Redacted]
 1200 Lunch (1.5 HOURS)
 1330 In-house Demonstrations / Exercises
 1630 End
 31-Mar Practice Sessions
 1-Apr Practice Sessions
 2-Apr Practice Sessions / Pickup (Noon)
 3-Apr Travel (Return)

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CELL/OTD 004543

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(S)

[Redacted]

By

FEDERAL BUREAU OF INVESTIGATION

[Redacted]

2010

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CLASSIFIED BY 65179 DMH/STW
REASON: 1.4 (C, G)
DECLASSIFY ON: 11-26-2037
DATE: 11-26-2012

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED EXCEPT
WHERE SHOWN OTHERWISE

Approved by

Reviewed by

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This document contains information that, in whole or in part, are controlled by originator, and not to be disseminated without prior approval from the Federal Bureau of Investigation

[Redacted]

[Redacted]

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CELL/OTD 019338

S&T: FBI FY 2009 Mid-Year Review: Performance Report

Initiative Topic:

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Key Project, Sub-Project, or Other Component Part of Initiative	Baseline FY 2009 Funding (\$K)*	% Obligated* Includes Committed	% Expended*	Project's Contribution to Initiative
(S)	(S)	100%	0%	(S)
		100%	0%	
		100%	0%	
		100%	0%	
		100%	0%	
		<input type="text"/>	0%	
		100%	0%	

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Critical Unfunded

Unit:	TTU
Short Title:	WIRELESS INTERCEPT AND TRACKING TEAM (WITT)
Shortfall Amount:	
Account(s):	
Cost Center:	
One-Time or Recurring Requirement	
Existing Contract(s):	YES
Unit Rank:	1
SC Rank:	
AD Rank:	

b7E

Description of your shortfall:

[Redacted]

specific amplifiers. This request shall provide capability not currently available and identified as a critical gap in locating/tracking wireless devices.

Why is this critical?

[Redacted]

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[Redacted]

GELL/OTD 008061

[Redacted]

Why can't you cover this with your current base funding?

[Redacted] although has insufficient funding available to cover [Redacted]
[Redacted] The cost of [Redacted] far exceeds current base funding as required.

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What is the impact if you are unable to obtain funding for this?

[Redacted]

CELL/OTD 008062



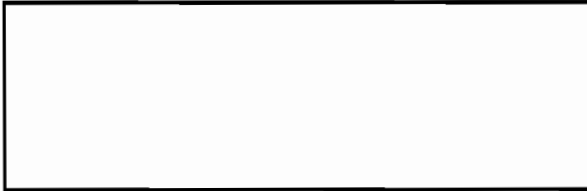
U.S. Department of Justice

Federal Bureau of Investigation

Washington, D.C. 20535-0001

[DATE], 20[YY]

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HEREIN IS UNCLASSIFIED
DATE 11-02-2012 BY 65179 DMN/STW b7E



Re: [Redacted] and Non-Disclosure Obligations

LAW ENFORCEMENT SENSITIVE (LES): The information in this document is the property of the Federal Bureau of Investigation (FBI) and may be distributed within the Federal Government (and its contractors), U.S. intelligence, law enforcement, public safety or protection officials and individuals with a need to know. Distribution beyond these entities without FBI Operational Technology Division authorization is prohibited. Precautions should be taken to ensure this information is stored and/or destroyed in a manner that precludes unauthorized access. Information bearing the LES caveat may not be used in legal proceedings without first receiving authorization from the originating agency. Recipients are prohibited from subsequently posting the information marked LES on a website on an unclassified network.

Dear [Redacted]

We have been advised by [Redacted] of the [Redacted]

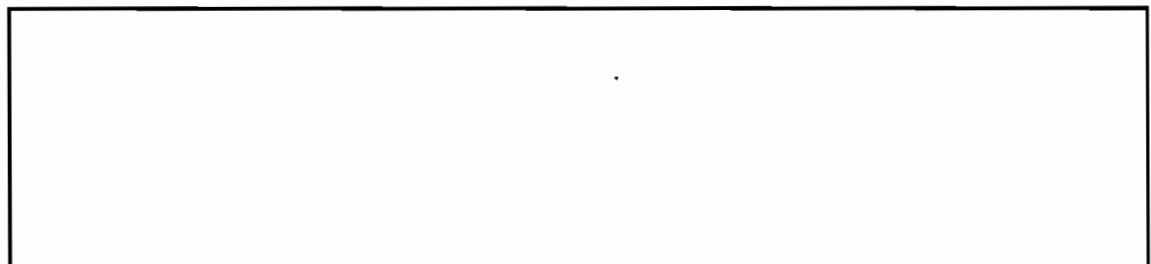
[Redacted]

[Redacted] Consistent with the conditions on the equipment

[Redacted]

[Redacted] must coordinate with the Federal Bureau of Investigation (FBI) to complete this non-disclosure agreement

[Redacted]



UNCLASSIFIED//FOR OFFICIAL USE ONLY//LAW ENFORCEMENT SENSITIVE

[REDACTED]

b7E

and

Unit Chief
Tracking Technology Unit
Operational Technology Division
Federal Bureau of Investigation
Engineering Research Facility
Building 27958A, Pod B
Quantico Virginia 22135

[REDACTED]

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Page 5 of 6

CELL/OTD 014564

FBICELL-267

The [redacted] s acceptance of the above conditions shall be evidenced by the signatures below of an authorized representative [redacted]

Sincerely,

Amy S. Hess
Assistant Director
Operational Technology Division
Federal Bureau of Investigation

Acknowledged and agreed to this _____ day of _____

[redacted]

~~SECRET~~



FBI Project Reviews

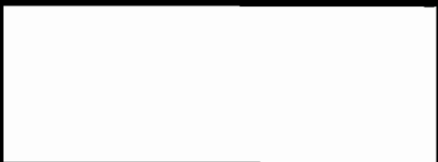
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Tracking Technology Unit

CELL/OTD 000878

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SECRET//NOFORN

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REASON: 1.4 (C, G)
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DATE: 11-14-2012

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FBI001:



SECRET 0811

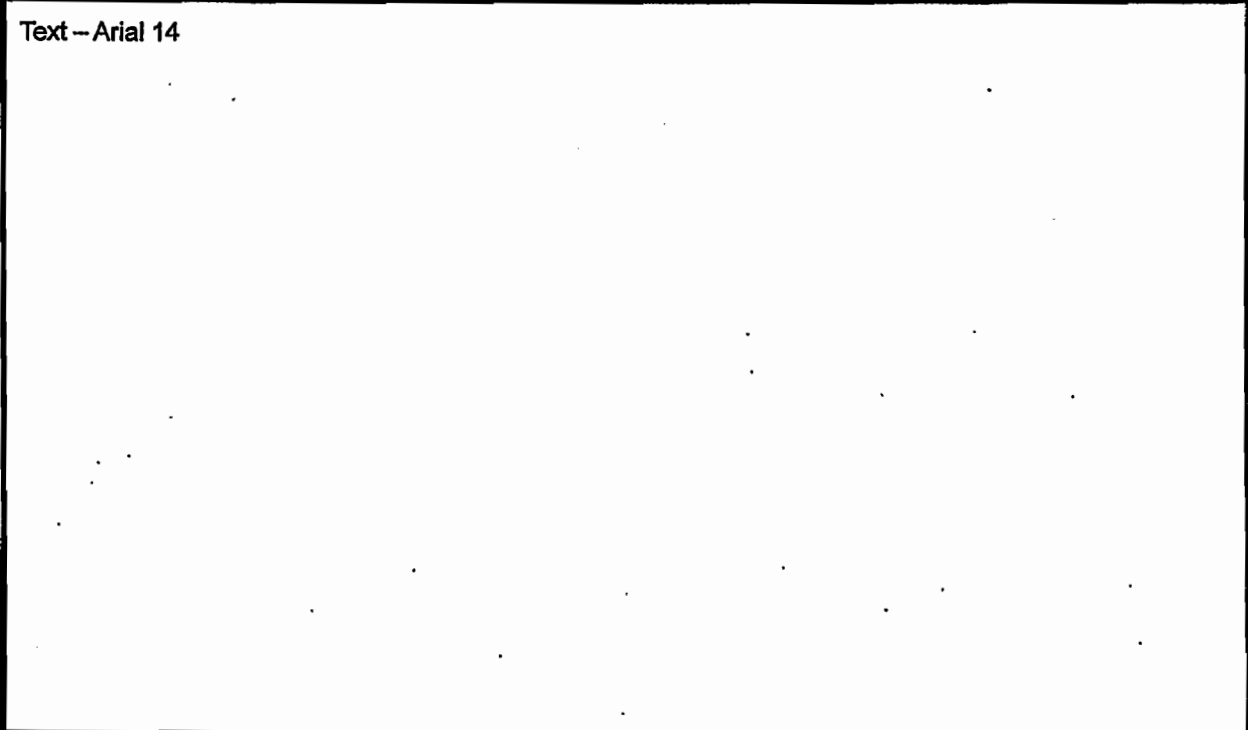


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(S/NF)

OVERVIEW

Text - Arial 14



A

SECRET 0811

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CELL 010/113
61800 010/0879



FBI001: [Redacted]

SECRET/NOFORN



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(S/INF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

(S)

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CELL/OTD 009380

COST/FUNDING (,000)

RISKS & ISSUES

b1
b3
b7E

Risks:

Text - Arial 14

Issues:

Text - Arial 14

B

~~SECRET~~



FBI001: [REDACTED]

~~SECRET//NOFORN~~



b3
b7E

(S//NF) DEPENDENCIES & COLLABORATION

SCHEDULE

(S)

[REDACTED]

Text - Arial 14

[REDACTED]

b1
b3
b7E

MISSION IMPACTS & SUCCESSES

Mission Impacts:

Text - Arial 14

Success Stories:

Text - Arial 14

198600 010/TEB

C

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~~SECRET~~



FBI001: [Redacted]

SECRET//NOFORN



b3
b7E

(S//NF)

DELIVERABLES

Deliverable Description:

Text - Arial 14

Quantity:

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text - Arial 10			

TECHNICAL PERFORMANCE

Text - Arial 14

D

SECRET//NOFORN

b1
b3
b7E

CELL/OTD 009832

~~SECRET~~



FBI015:

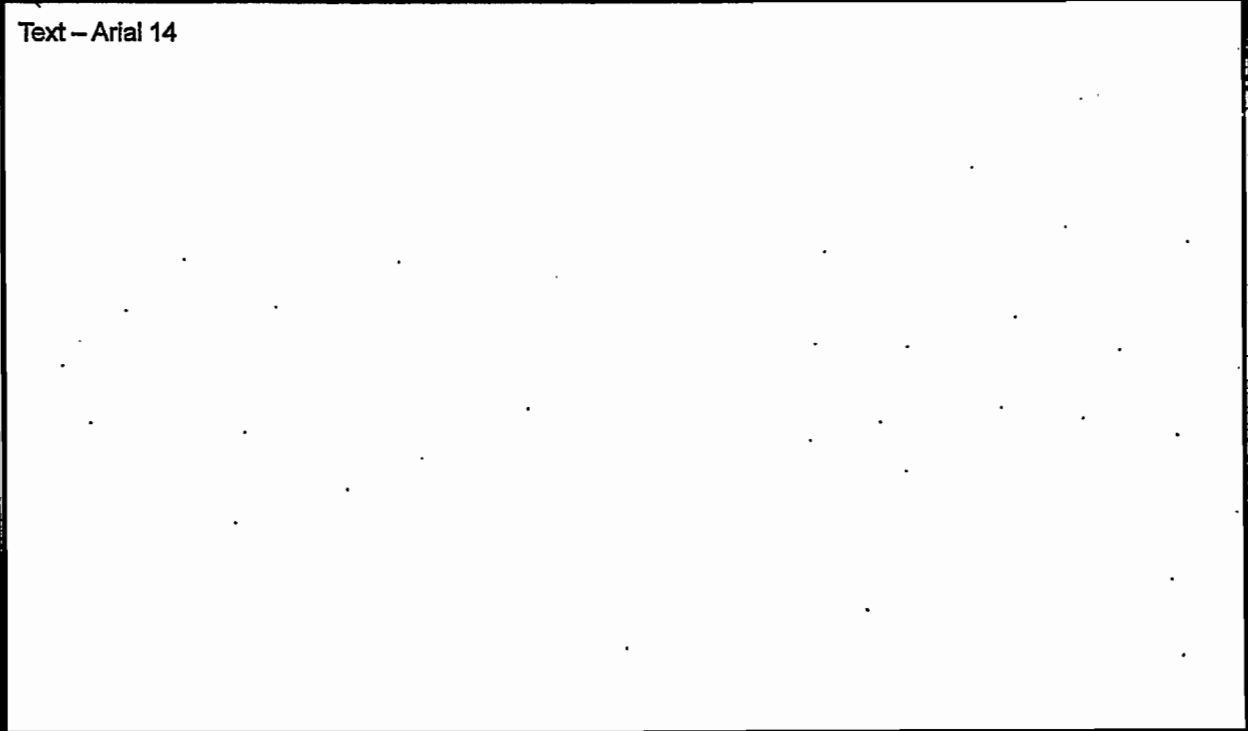


b3
b7E

(S//NF)

OVERVIEW

Text - Arial 14



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CELL/OTD 009083



FBI015:

[Redacted]



b3
b7E

(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

[Redacted]

b1
b3
b7E

COST/FUNDING (.000)

RISKS & ISSUES

[Redacted]

Risks:

Text - Arial 14

Issues:

Text - Arial 14

b1
b3
b7E

CELL/OTD 009884

B



FBI015:



.b3
b7E

(S/INF) **DEPENDENCIES & COLLABORATION**

SCHEDULE

(S) [Redacted]

Text - Arial 14

b1
b3
b7E

Collaboration\Level:
N/A

CUSTOMERS & REQUIREMENTS

MISSION IMPACTS & SUCCESSES

Customers/Users:
OTD/TTU

Mission Impacts:
Text - Arial 14

Requirements:

Success Stories:
Text - Arial 14

CELL/OTD 009885

C

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SECRET//NOFORN



FBI015:

[Redacted]



b3
b7E

(S//NF)

DELIVERABLES

Deliverable Description:

Text - Arial 14

Quantity:

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text - Arial 10			

b1
b3
b7E

TECHNICAL PERFORMANCE

Text - Arial 14

D

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CELL/OTD 009885

~~SECRET~~



FBI016:



SECRET/NOFORN

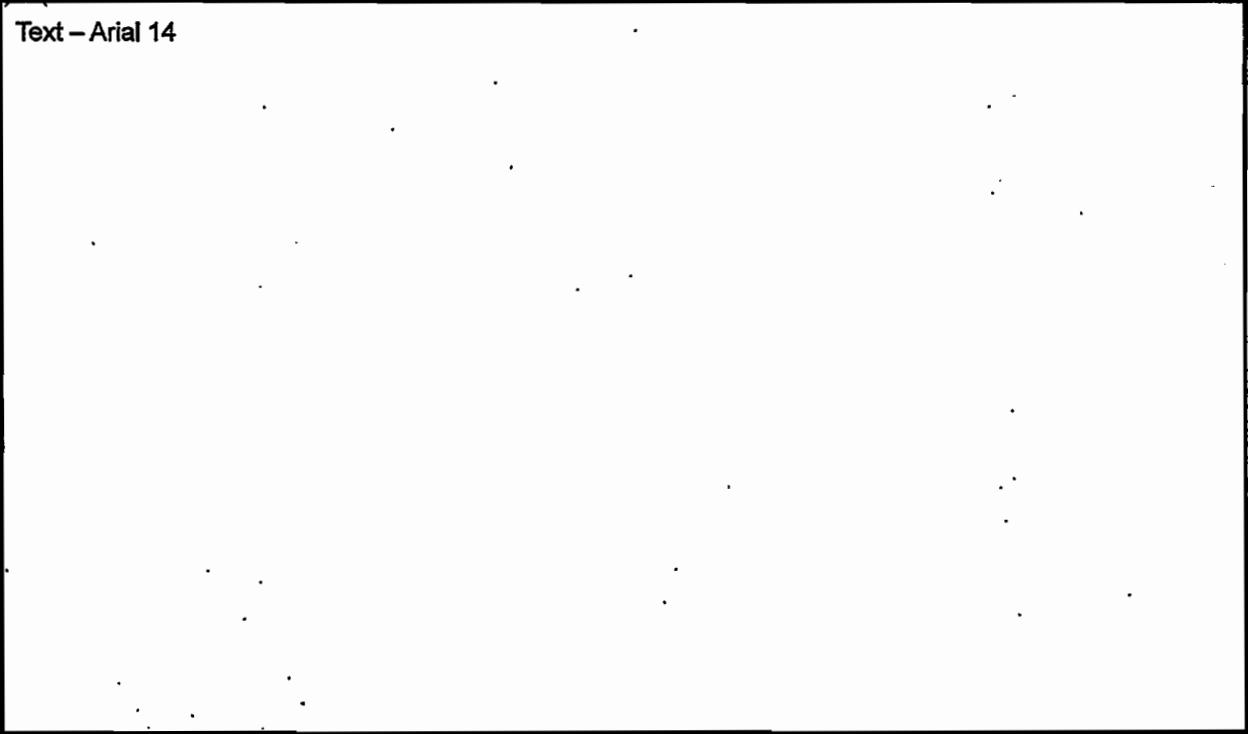


b3
b7E

(S//NF)

OVERVIEW

Text - Arial 14



A

SECRET/NOFORN

~~SECRET~~

28660 010/7131



FBI016: [Redacted]



(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

[Redacted content]

b1
b3
b6
b7C
b7E

COST/FUNDING (,000)

RISKS & ISSUES

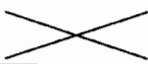
[Redacted content]

Risks:
Text - Arial 14

Issues:
Text - Arial 14

b1
b3
b7E

B





FBI016: [Redacted]



(S/NF) **DEPENDENCIES & COLLABORATION**

SCHEDULE

[Redacted]

Text - Arial 14

Collaboration\Level:
N/A

b1
b3
b7E

CUSTOMERS & REQUIREMENTS

MISSION IMPACTS & SUCCESSES

Customers/Users:
OTD/TTU

Mission Impacts:
Text - Arial 14

Requirements:

Success Stories:
Text - Arial 14

CELL/DTB 009389

C

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FBI016:



SECRET//NOFORN



(S//NF)

DELIVERABLES

Deliverable Description:

Text - Arial 14

Quantity:

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text - Arial 10			

TECHNICAL PERFORMANCE

Text - Arial 14

D

SECRET//NOFORN

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b1
b3
b7E

CLASSIFIED