

~~TOP SECRET//SI//TK//NOFORN~~

NATIONAL RECONNAISSANCE OFFICE

(U) SIGINT Overview
(U) Overhead SIGINT [redacted] initiatives
April 2016

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

The overall classification of this brief is
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CL BY [redacted]
DECL ON PSX1 20060407
DRV FM INCS 10 17 February 2012

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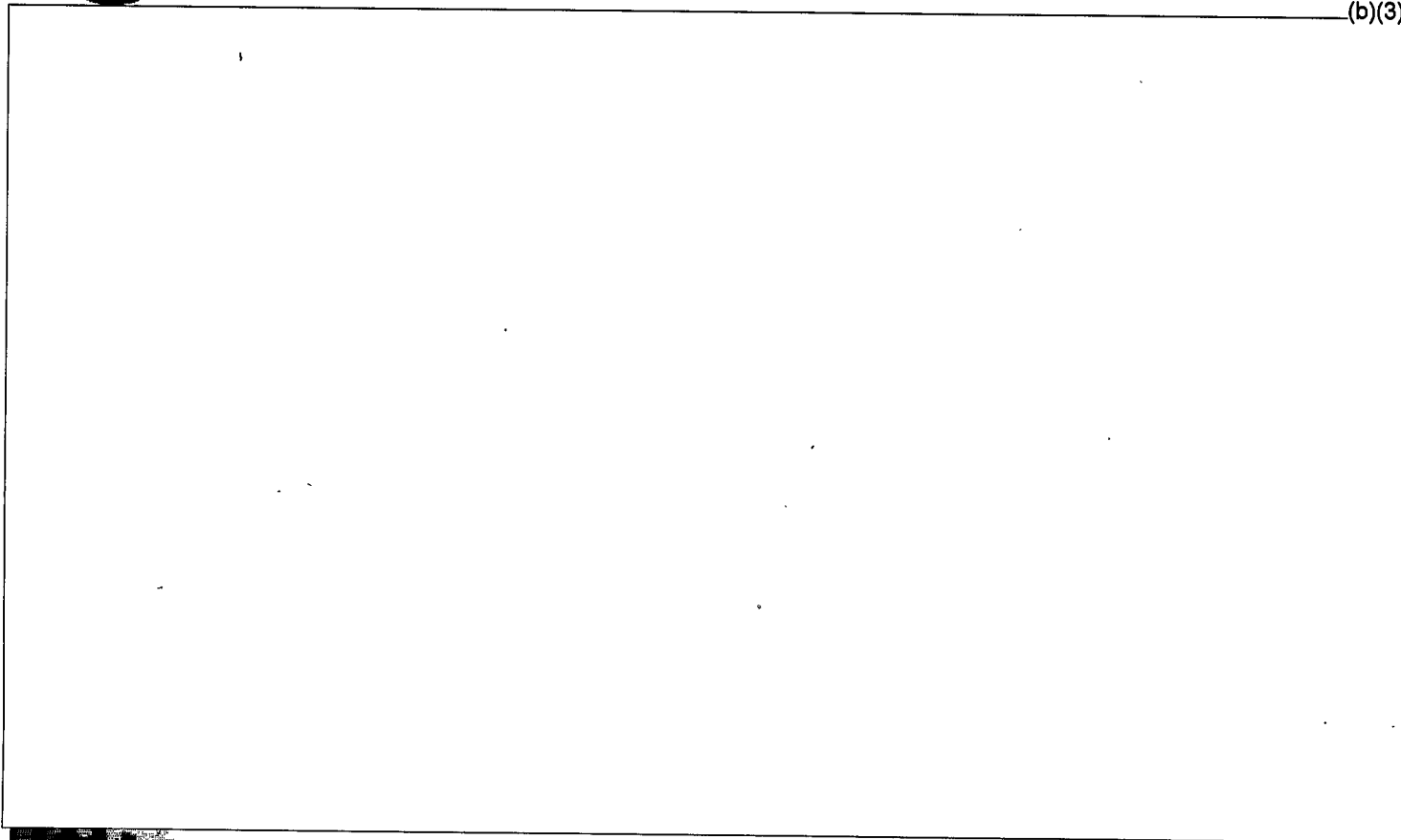
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(U) Overhead SIGINT Constellation

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(b)(3)



Graphic is ~~(S//TK//REL)~~

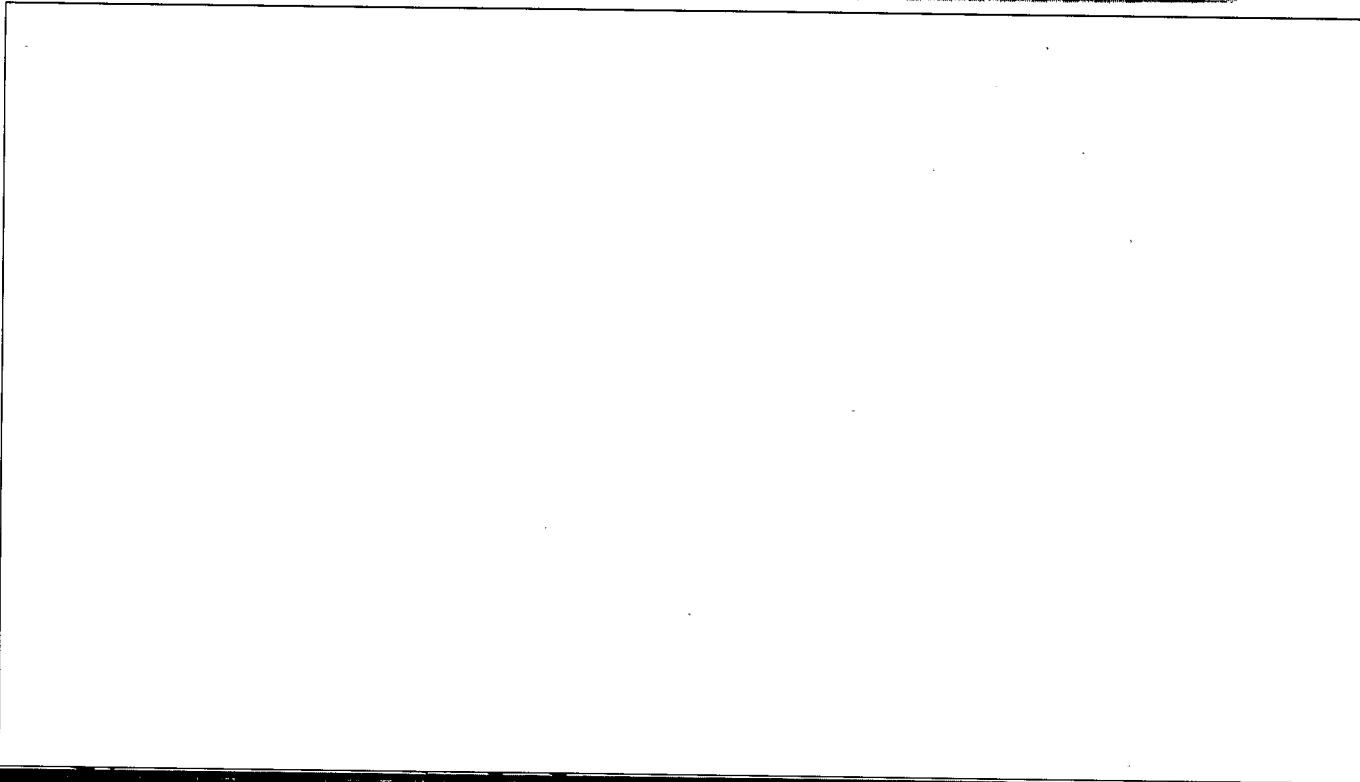
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(U) Overhead SIGINT Traditional Single Day Collection



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

(U) Global Reach and On Demand Persistence



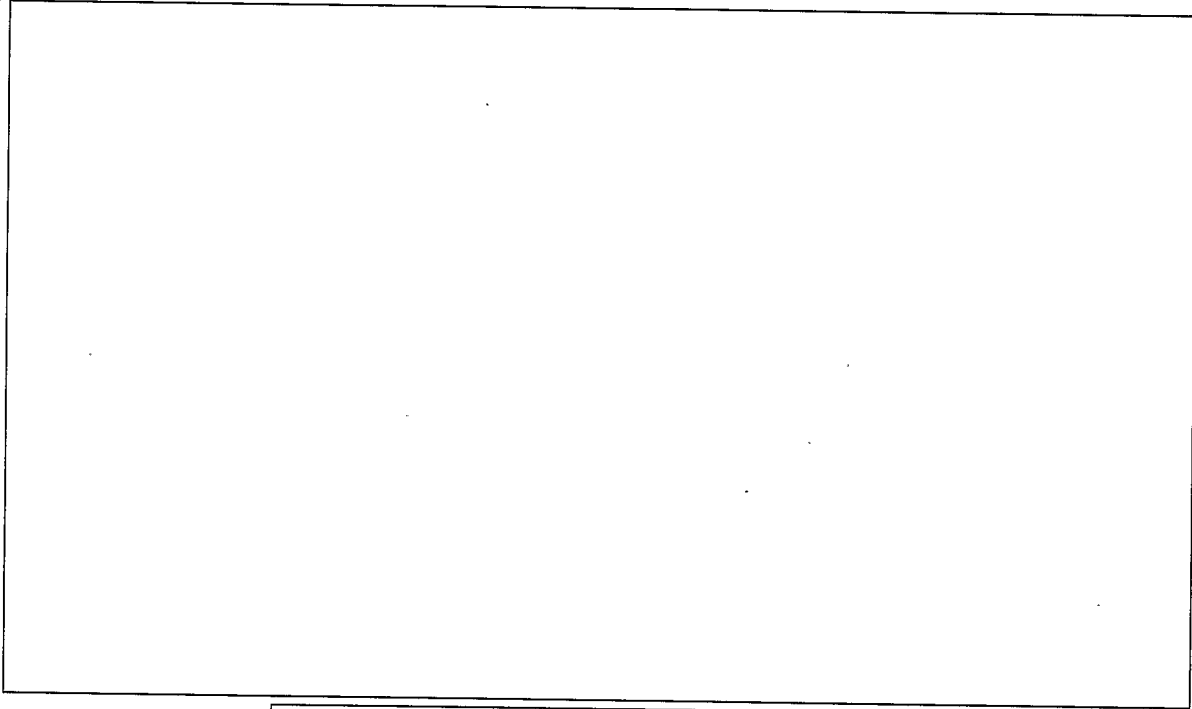
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(U) Traditional Mapping Mission



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

Graphic and Video are ~~(S//SI//TK//REL TO USA, FVEY)~~

- ~~(S//REL)~~ Limited observable [redacted]
- ~~(S//SI//REL)~~ Significant increase [redacted]

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

(U) Persistence Enables Mapping Mission



~~(U//FOUO)~~ THIS IS NOT A FINISHED INTELLIGENCE PRODUCT - IT IS TO BE USED "FOR INFORMATION PURPOSES ONLY"

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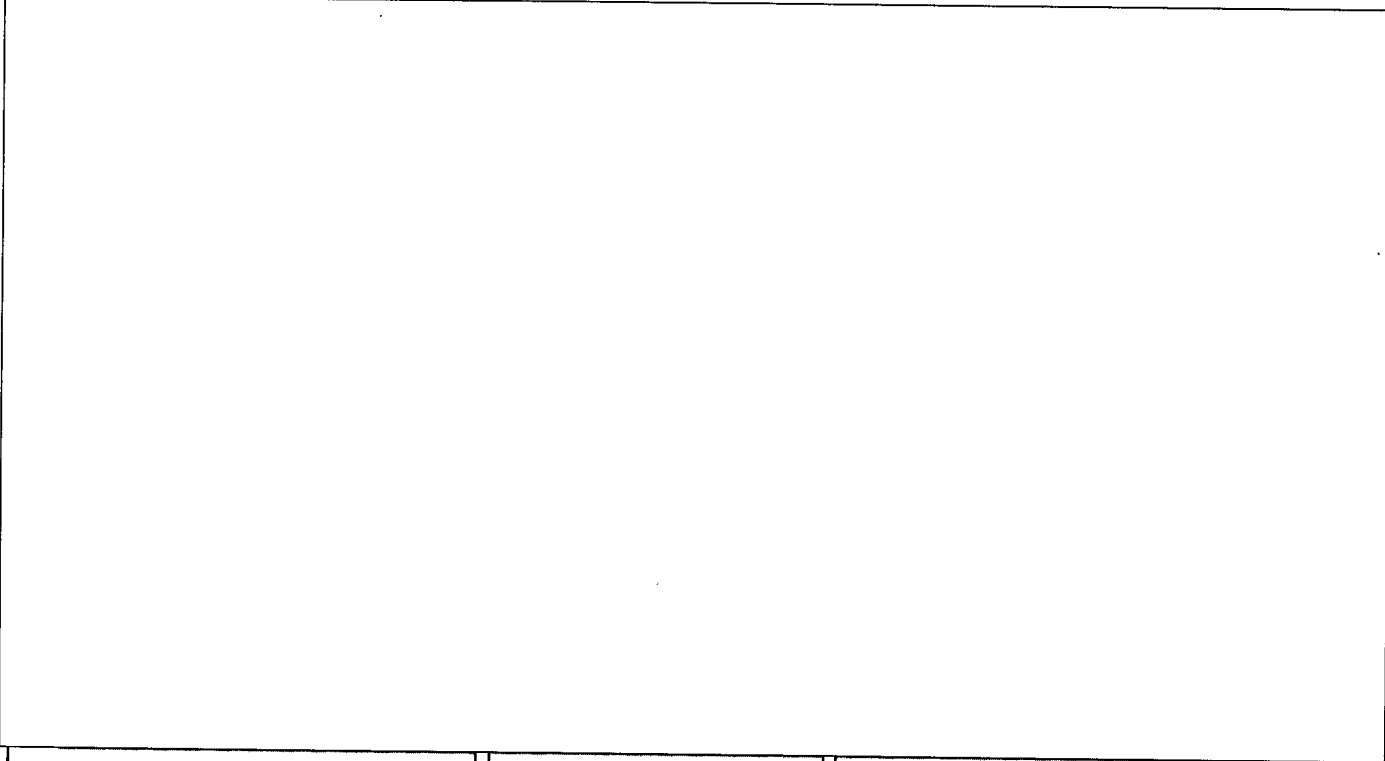
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(S//REL) **Overhead SIGINT Enabling**

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(b)(1)
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Graphic is (S//SI//TK//REL)

(S//REL) **Overhead SIGINT Thrusts Enabling**

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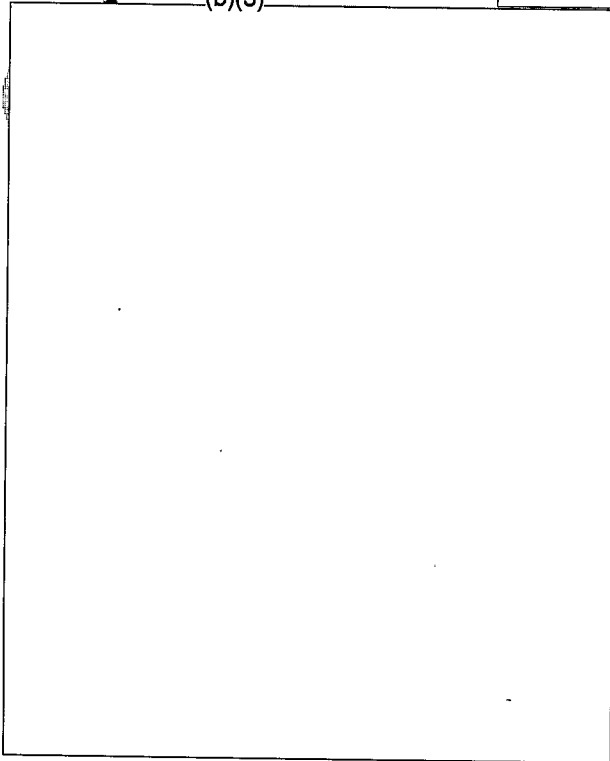
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(S//SI//REL)

Overhead SIGINT & [redacted]

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(b)(1)
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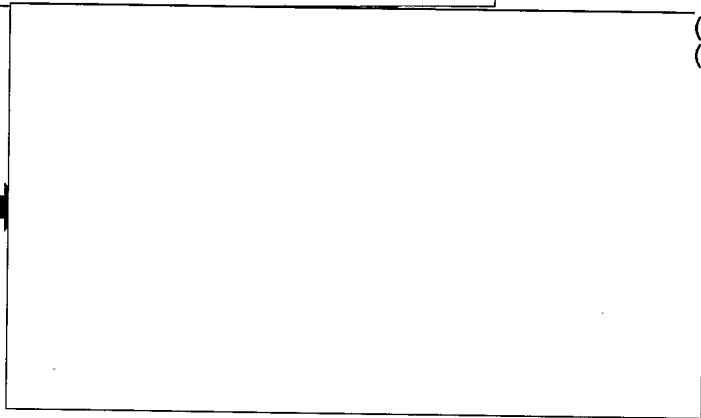


- (S//SI//TK//REL) [redacted] (b)(1)
[redacted] (b)(3)

- (S//SI//REL) [redacted] (b)(1)
[redacted] (b)(3)

- (U) [redacted] with which it is communicating

- (S//SI//REL) [redacted] (b)(1)
[redacted] (b)(3)



(b)(1)
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(b)(1)
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Graphics are (S//SI//TK//REL)

(U) Agility & Access Refining [redacted] Mapping & Collection Tasking

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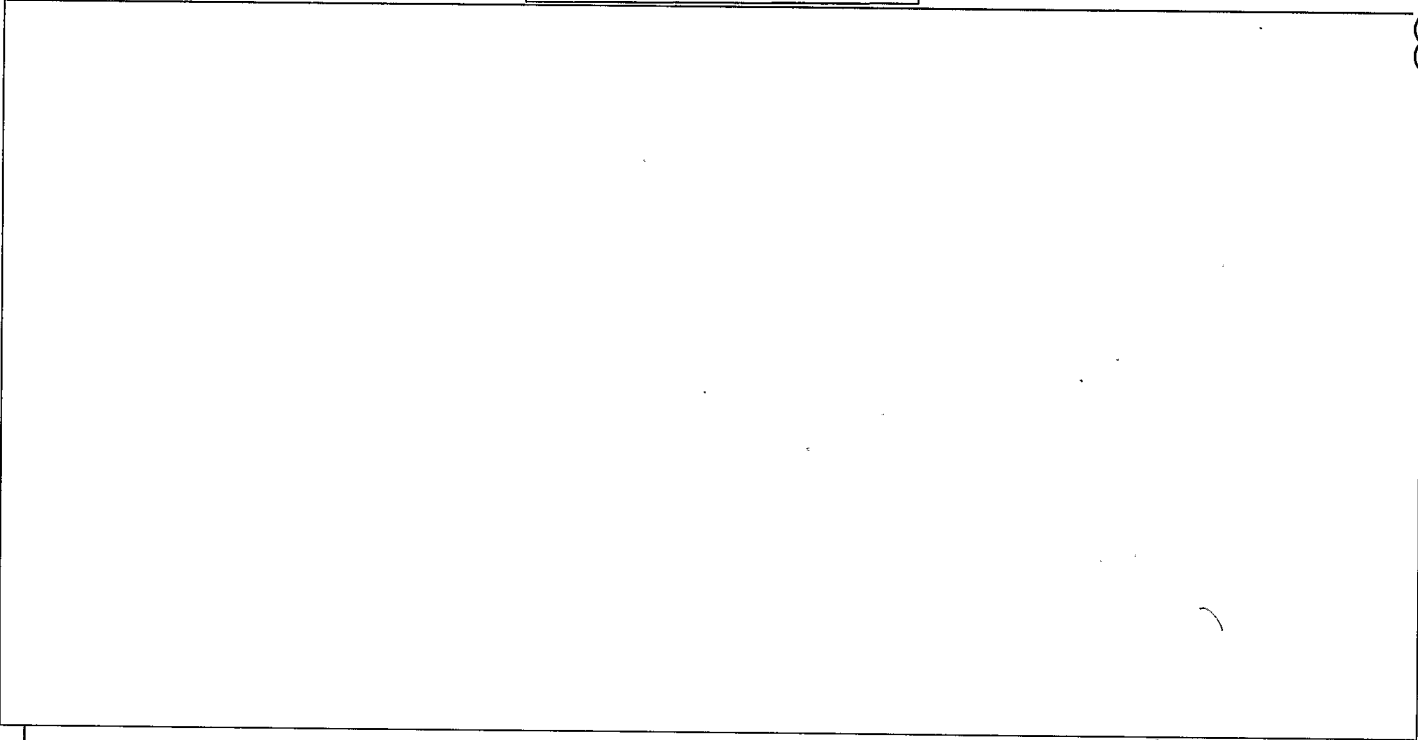
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(U) SEI:



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

Graphic is (FO//SI//TK//REL)

(U) SEI Refines



(b)(3)



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(TS//REL) [redacted] Informing Overhead SIGINT Collection

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- (TS//REL) [redacted]
- (S//REL) [redacted] engineers [redacted] refined SIGINT tasking [redacted]
- (S//REL) Updated CONOP first used to support [redacted]

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

Graphics and Text are (TS//SI//TK//REL)

(TS//REL) [redacted] Informing Overhead SIGINT Collection Tasking

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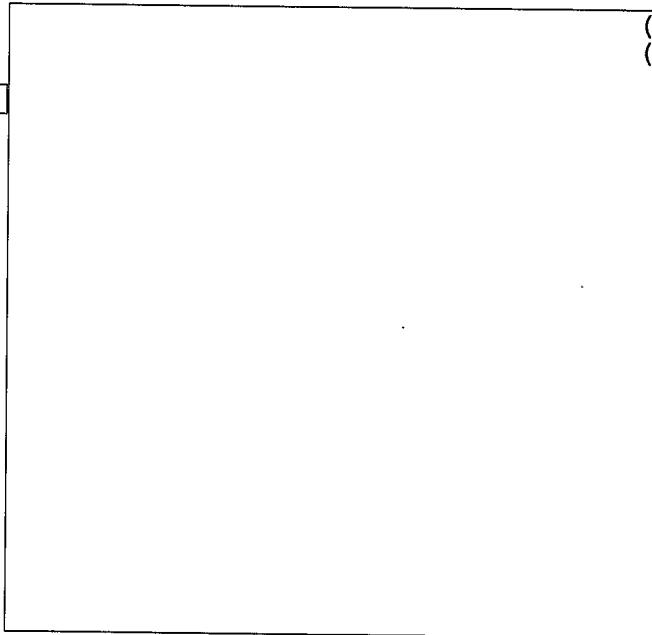
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(TS//SI//REL)

Aids SIGINT Collection

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

- (TS//SI//REL) [redacted]
- (S) Very limited on details, but included a [redacted]
- (S) [redacted]
- (TS//REL) [redacted] identified as carrying [redacted]
- (S//REL) [redacted]
- (TS//SI//REL) During collection, identified a new [redacted]
- (TS//REL) Resolved to [redacted]



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

(b)(1)
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Graphics and Text are (TS//SI//TK//REL)

(TS//SI//REL)

& Overhead SIGINT Confirms



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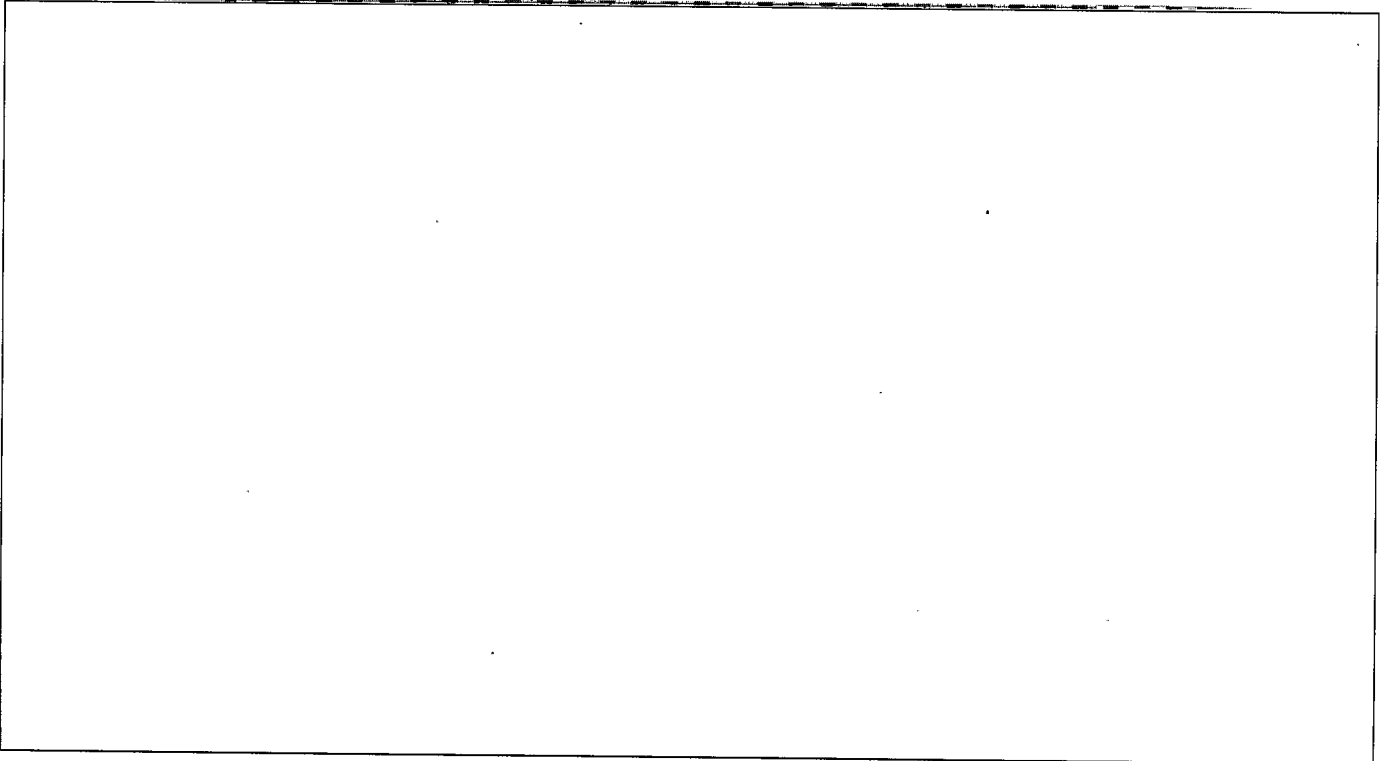
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(S//REL) Overhead SIGINT Identifying



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(b)(1)
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Graphic is (S//REL)

(S//REL) Overhead SIGINT Identifying



(b)(1)
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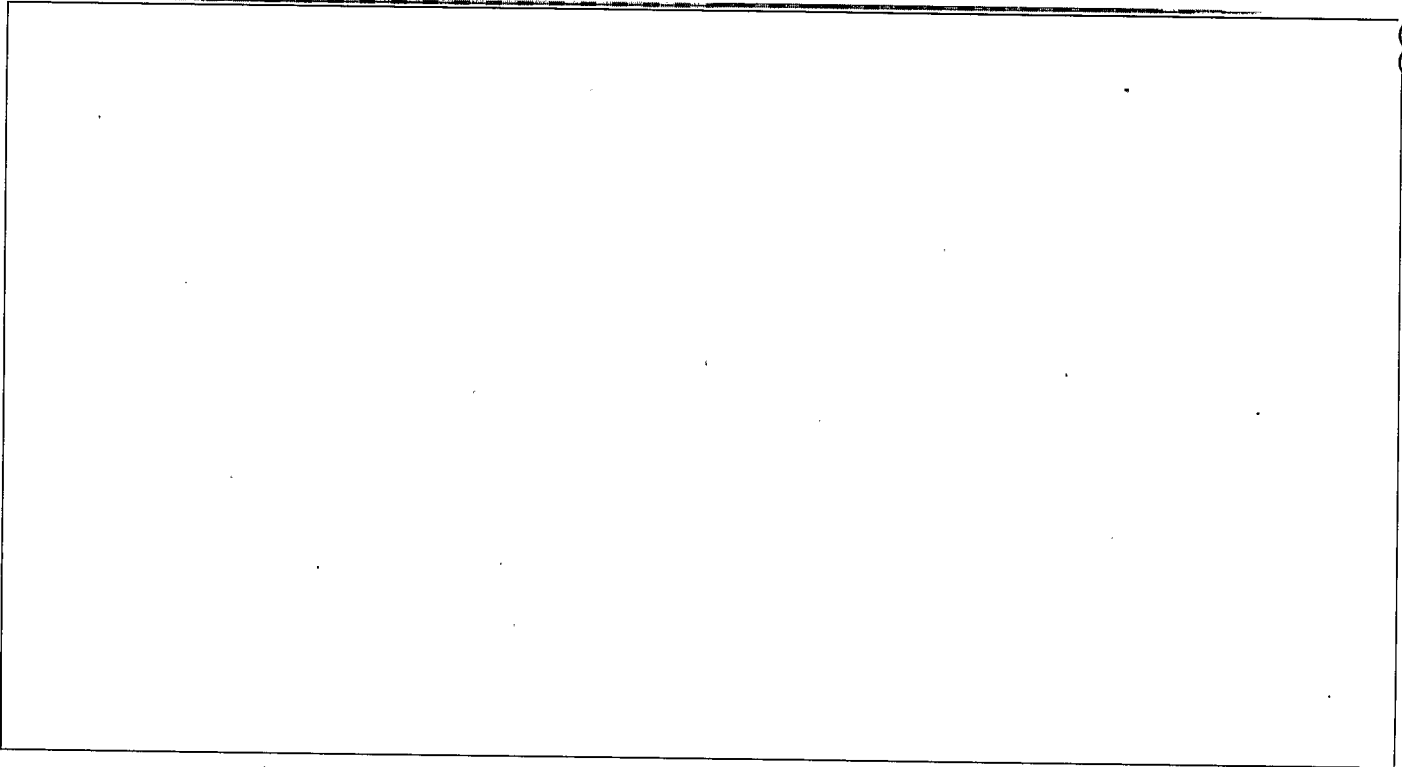
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(S//REL) Overhead SIGINT Expediting



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



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

Graphic is (TOP SECRET//REL)

(S//SI//REL) Processing of Overhead SIGINT Id's



Activity

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



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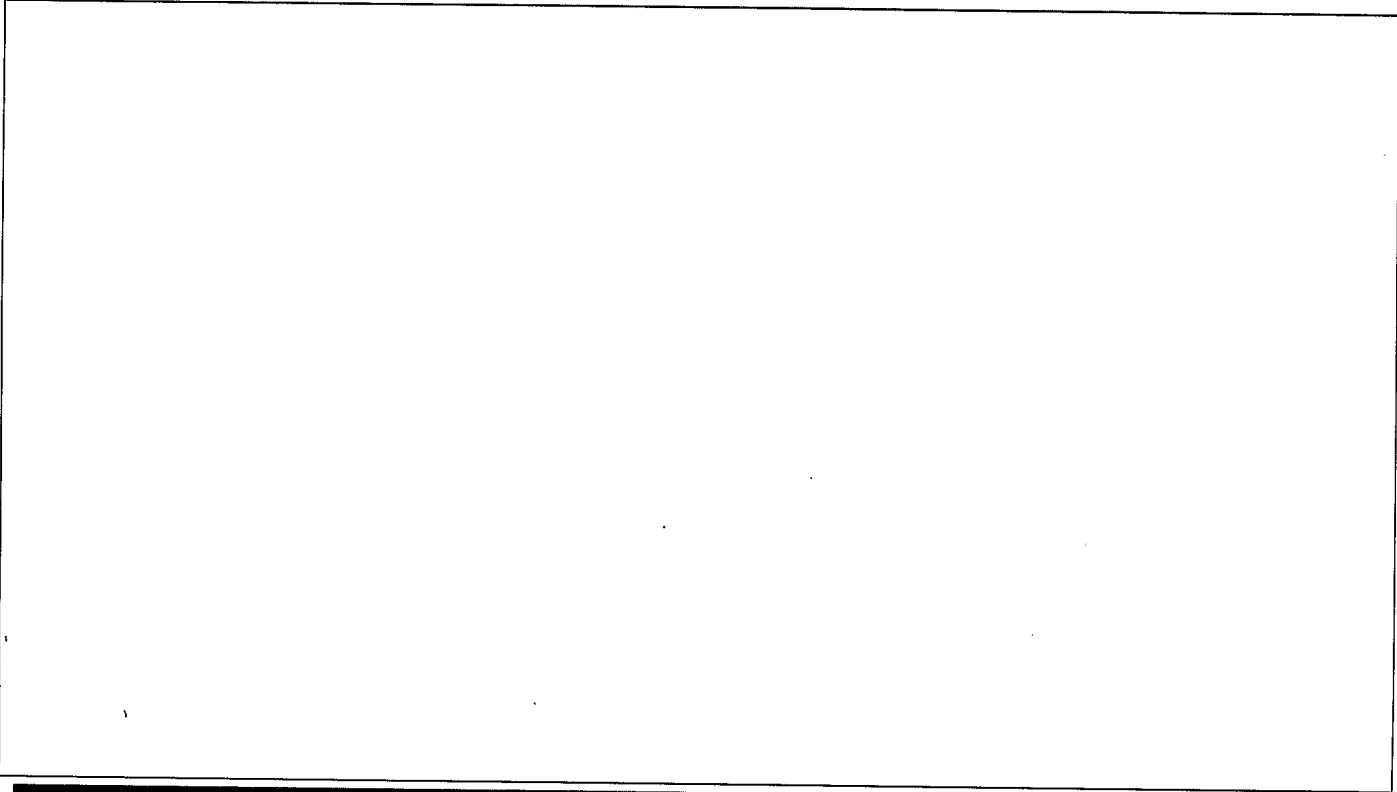


(S//REL) **NRO SIGINT**



Capabilities

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



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

(U) Space & Ground Technology Investment Delivers Required Capabilities



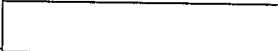
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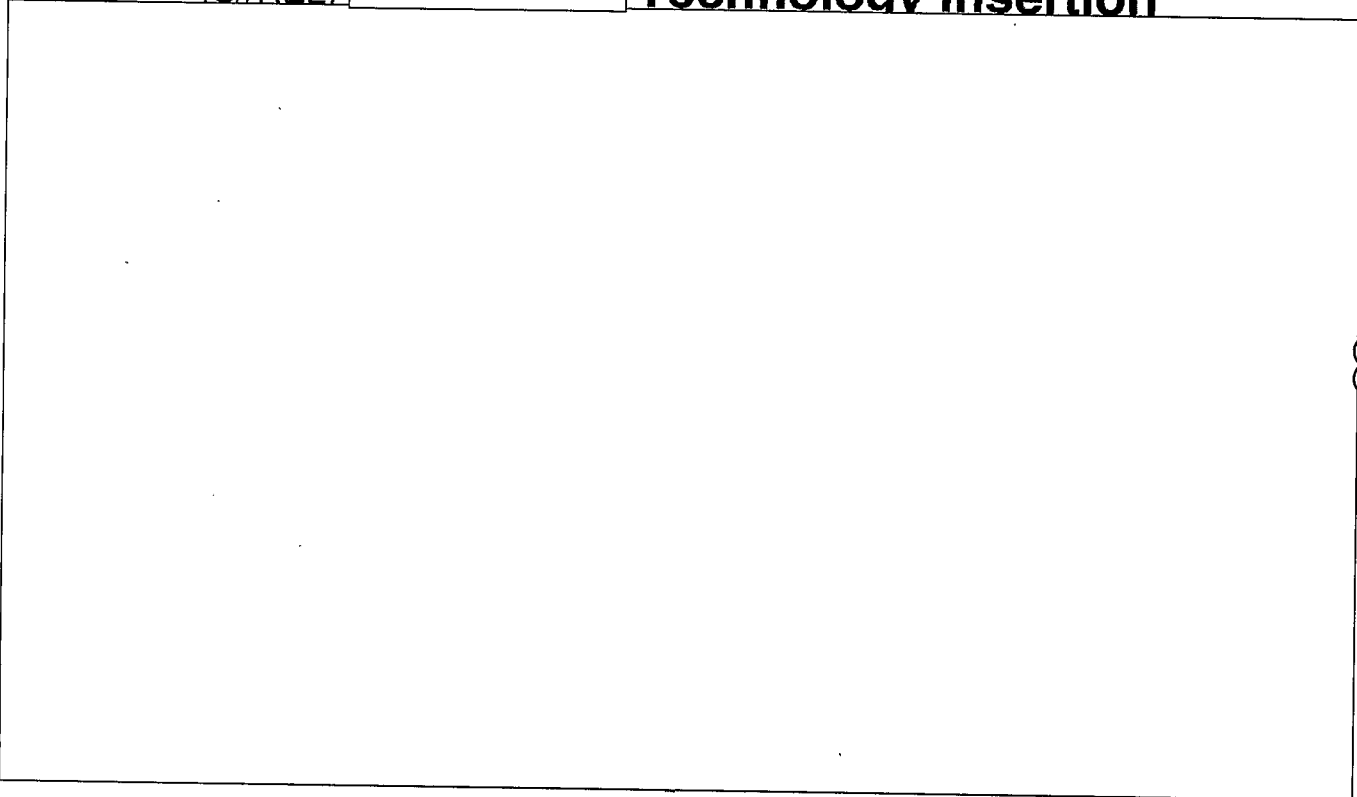


(S//REL)



Technology Insertion

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



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

Graphics are (S//SI//TK//REL)

(U) Improving Access/Accuracy for Discovery & Mapping in Dense Environments



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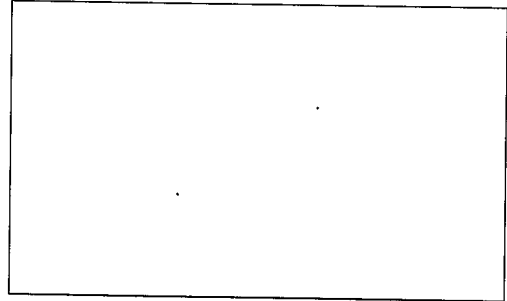


(S//TK//REL)

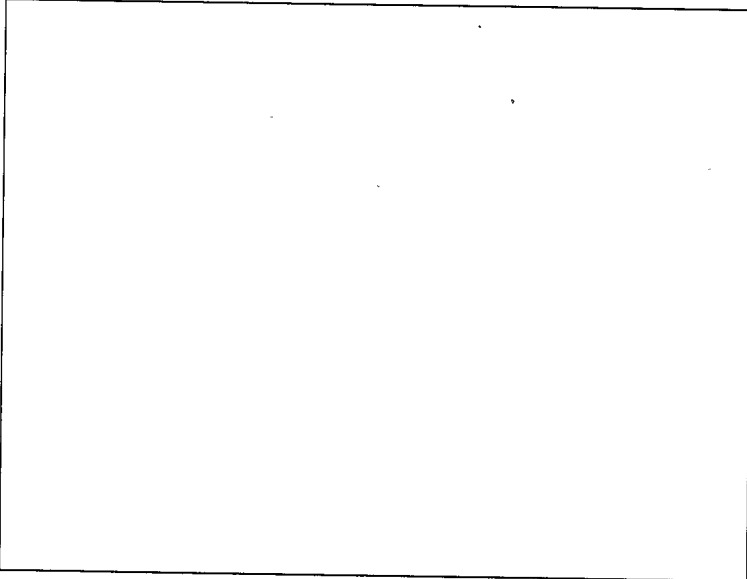


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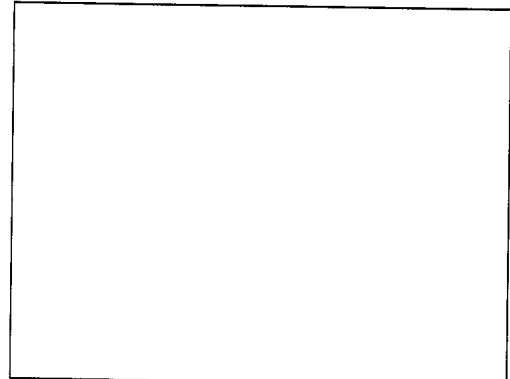
- (U) Provides [redacted] collection & geolocation improvement
- (S//TK//REL) [redacted]
- (S//TK//REL) [redacted]



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



Graphic is (S//SI//TK//REL)



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

Graphics are (S//TK//REL)

(U) [redacted] Improves [redacted] Collection Accuracy

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



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(S//TK//REL)

[Redacted]

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

(U) [Redacted]
provides a flexible [Redacted]
coverage of [Redacted]

- [Redacted]
- [Redacted]
- [Redacted]

[Redacted]

[Redacted]

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

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

Graphics are (S//TK//REL)

(S//TK//REL)

Improves Capacity and Agility for All [Redacted]

(b)(1)
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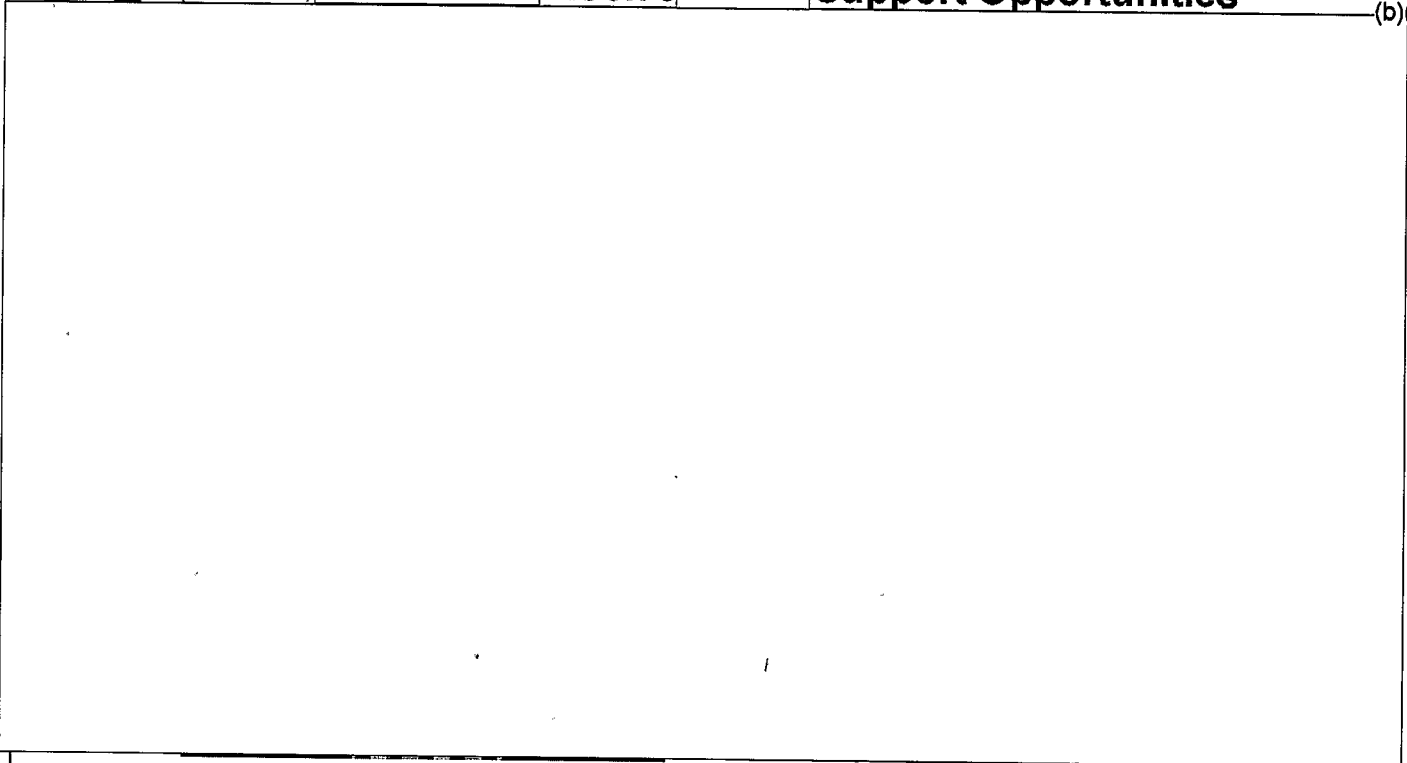
(S//TK//REL)

Block 3

Support Opportunities

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

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



Graphic and Text is (S//TK//REL)

(U) Block 3 Agility & Access Offers Opportunity to Improve [redacted] Support

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



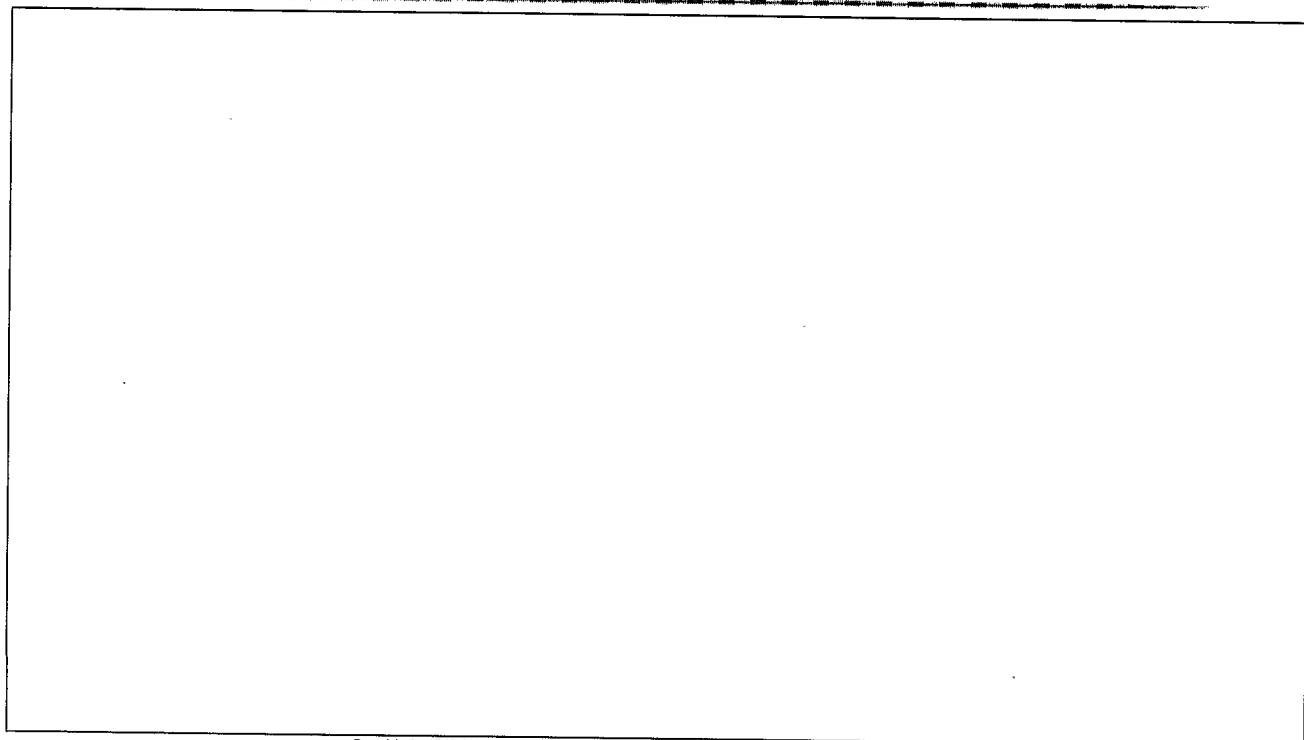
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(U) Enhanced Access & Geolocation



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

Graphic is ~~(S//TK//REL)~~

(U) Provides Improved Access & Geolocation to Support [REDACTED] Effects

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



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(U) Opportunity for Rapid Capability Insertion

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(S//TK//REL)

[Redacted]

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

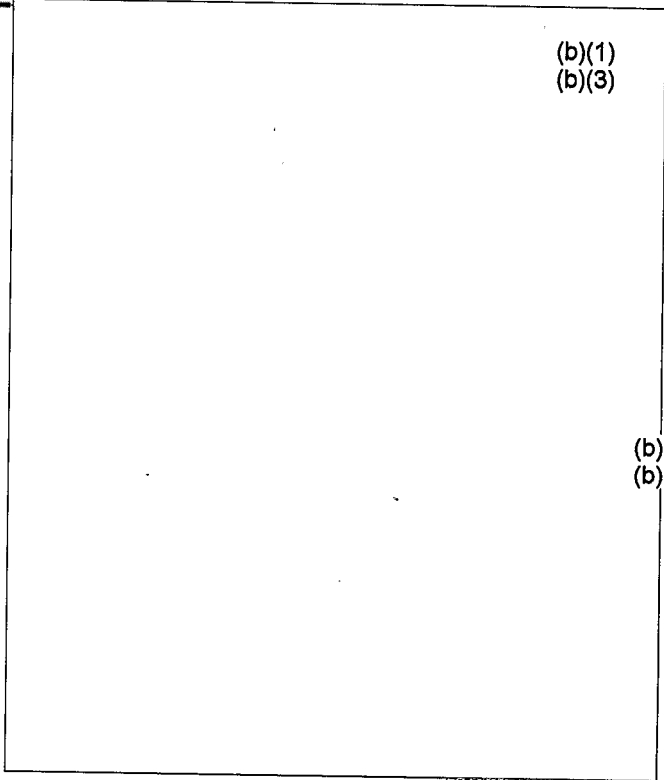
- (U) Functionally similar [Redacted]
- (U) Leverages [Redacted] to provide [Redacted]

(U) Numerous Candidates benefit from

[Redacted]

- (U) [Redacted]
- (U) [Redacted] Radars
- (U) [Redacted]
- (U) Potential to Pursue [Redacted] Initiatives

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



Graphics are (S//TK//REL)

(U) [Redacted] Enables Innovation & Rapid Mission Solutions

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



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(U) Compilation of unclassified information is (S//TK//REL)

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(U//FOUO)

[Redacted]

Innovative

[Redacted]

Effort

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

(U) Initial Project Objectives

- (S//NF) [Redacted]

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

(U) Mission / Benefit

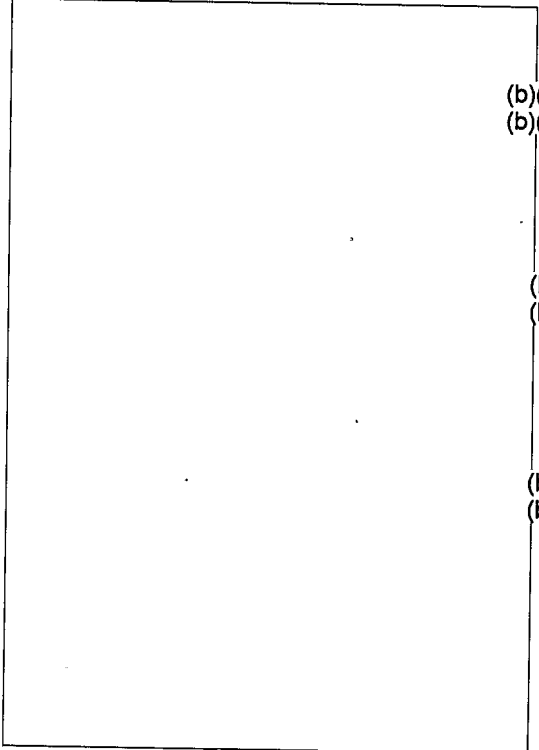
- Cost effective solution to rapidly extend IOSA capabilities
- Responsive architecture easily integrates latest [Redacted] technology/microprocessors
- Extensible to support other missions such as [Redacted]

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

(U) Future Opportunities

- Leverage [Redacted] development; scale up to support increased sensitivity [Redacted] successfully tested and characterized
- Potential to leverage [Redacted] comms infrastructure

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



Graphics are (S//TK//REL TO USA, FVEY)

(U) Provides Enhanced Access to Support

[Redacted]

Effects Operations

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



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(U) Compilation of [Redacted] and [Redacted] is S//TK//NF.

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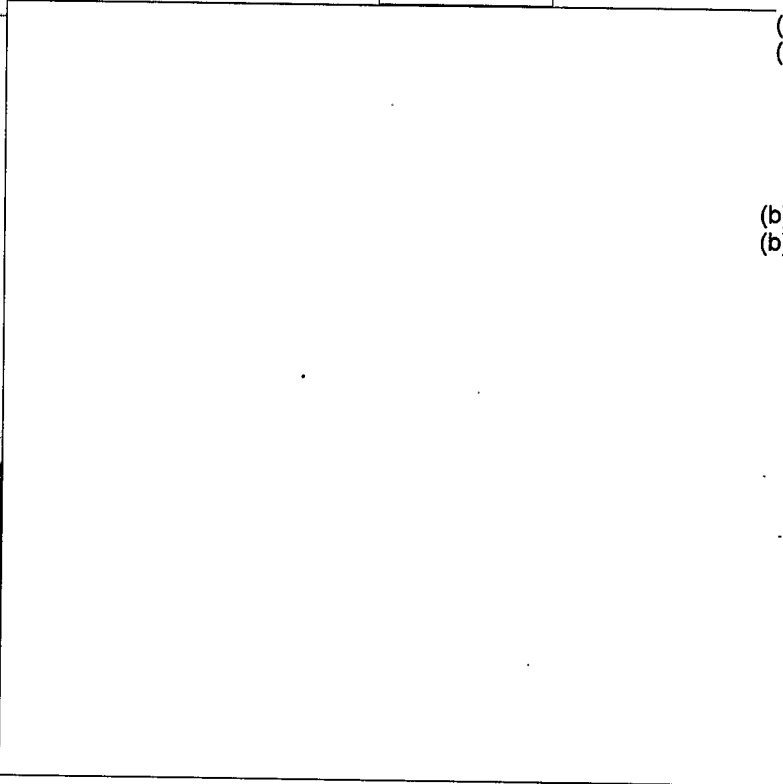


(U) Overhead SIGINT Tackling



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

- (U) Overhead SIGINT Supporting:
 - Precise Mapping
 - Support
 - Vulnerability Mapping
 - Support
- (U) Ground Processing Innovation
Maximizing Overhead SIGINT
to Effects
- (U) SIGINT Thrusts & Technology Pursuits:
 - Offers Further Innovation on Ground
 - Targeting Enablers to Rapidly Insertion
of Leading Edge Capabilities



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

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

Graphics are (TS//SI//TK//NOFORN)

(U) Overhead SIGINT Contribution to Effects are Evolving

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



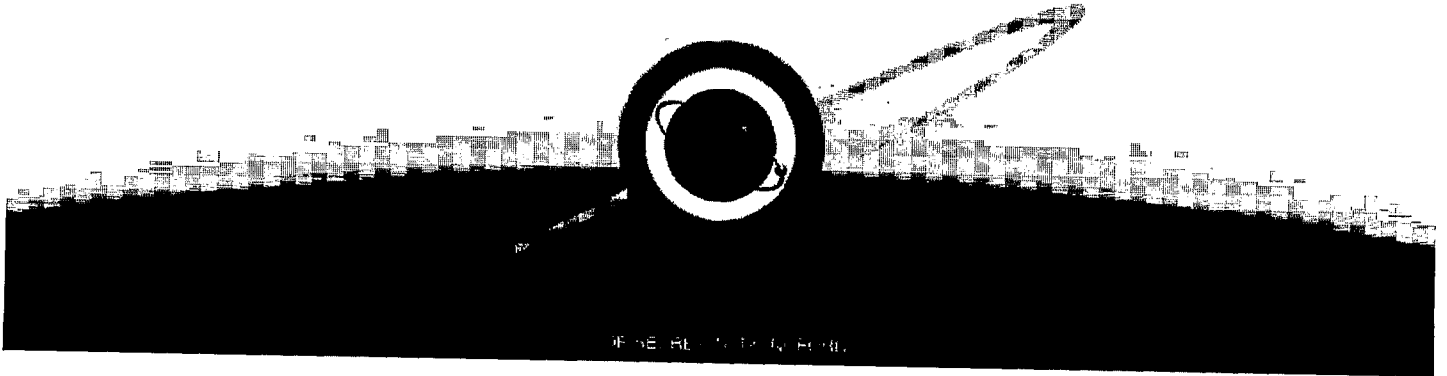
~~TOP SECRET//SI//TK//NOFORN~~

(U) Compilation of unclassified information is TS//REL

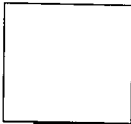
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Capability Status

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Current as of: 21 MAR 16 (b)(3)

Capability	Platform	Details	NRO Support/Equities

(b)(1)

(b)(3)

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