



DEPARTMENT OF THE ARMY
UNITED STATES ARMY AVIATION AND MISSILE COMMAND
REDSTONE ARSENAL, ALABAMA 35898-5120

REPLY TO
ATTENTION OF:

19 September 2014

Legal Office

Ms. Julia Horwitz
1718 Connecticut Avenue NW, SUITE 200
Washington, DC 20009

Dear Ms. Horwitz:

This is our second interim response to your Freedom of Information Act (FOIA) request to the Department of the Army dated 1 November 2013 and seeking, in summary, records pertaining to the capabilities of the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS), to include JLENS contracts and statements of work reflecting said capabilities. Enclosed are three documents responsive to your request, JLENS-A-CS-60-0009-00A-000B-A, "Voice Recorder – Equipment Description and Data" (10 pages); JLENS-A-SP-20-0001-01A-131A-A, "High Speed Recorder Power On – Normal operation procedures" (10 pages); JLENS-A-OP-00-0010-00A-131A-A; "Start Data Recording - Normal operation procedures" (10 pages). Portions of these 30 pages provided have been redacted pursuant to FOIA Exemption 3.

Exemption 3 of the FOIA incorporates the various nondisclosure provisions that are contained in other federal statutes. Title 10, United States Code (U.S.C.), Section 130 permits the withholding of certain technical data from public disclosure. The custodial agency has determined that, in accordance with DoD Directives implementing Section 130, the documents in question contain critical technical data with military or space application not intended for release to the public or foreign governments without an approval, authorization, or license under the Export Administration Act of 1979 (Title 50, U.S.C. App., Sections 2401-2420) or the Arms Export Control Act (Title 22, U.S.C., Section 2751 et seq.).

Although I am aware that your request is the subject of ongoing litigation and appeals are not ordinarily acted on in such situations, I am required by statute and regulation to inform you of your right to file an administrative appeal. Any such appeal should be addressed to the **United States Army Aviation and Missile Command Legal Office, Attention: AMSAM-LG, 5300 Martin Road, Redstone Arsenal, Alabama 35898-5000**, for forwarding to the Army General Counsel for final disposition on behalf of the Secretary of the Army. If you elect to file an appeal, it must be postmarked no later than 60 calendar days after the date of this interim release letter and include a copy of this letter. In your appeal letter, you must provide a statement of the reasons why you believe this initial decision to be in error. The appeal envelope and letter must be clearly marked "Freedom of Information Act Appeal."

Sincerely,

A handwritten signature in black ink that reads "Fred W. Allen".

Fred W. Allen
Chief Counsel

Enclosures

Voice Recorder - Equipment Description and Data

DMC: JLENS-A-CS-60-0009-00A-000B-A
Language: en/US
Issue no: 001
Issue Date: 2013-07-30
Title: Voice Recorder - Equipment Description and Data
Security classification: Class01
Data Restrictions:

Distribution ~~DISTRIBUTION STATEMENT F - Further dissemination only as directed by the Cruise Missile Defense Systems Project Office, SFAE-MSLS-CMDS-PE-CM, Redstone Arsenal, AL 35898-5000, 24 March 2000.~~

Export control ~~WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751 et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., app 2401 et seq. Violation of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DOD Directive 5230.25.~~

Handling This information is furnished upon the condition that it will not be released to another nation without the specific authority of the Department of the Army of the United States, that it will be used for military purposes only, that individual or corporate rights originating in the information, whether patented or not, will be respected, that the recipient will report promptly to the United States, any known or suspected compromise, and that the information will be provided substantially the same degree of security afforded it by the Department of Defense of the United States. Also, regardless of any other markings on the document, it will not be downgraded or declassified without written approval of the original United States agency.

Destruction DESTRUCTION NOTICE - For classified documents, follow the procedures in DOD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM), Chapter 5, Section 7, or DOD 5200.1-R, Information Security Program Regulation, Chapter IX. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

Disclosure There are no dissemination limitations that apply to this data module.

Copyright

Applicable to: All

Responsible partner company: Raytheon Company/49956

Originator: Raytheon Company/49956

Applicability:

QA: Unverified

Applicable to: All

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

Voice Recorder - Equipment Description and Data

Table of Contents

	Description.....	Page
	1 INTRODUCTION.....	1
	2 EQUIPMENT DESCRIPTION.....	1
2.1	Key Product Characteristics.....	1
2.2	Configuration.....	2
2.3	Voice Recorder [REDACTED] Controls and Indicators.....	3
2.4	Voice Recorder [REDACTED].....	5

List of Tables

		Page
1	Key Product Characteristics of Voice Recorder [REDACTED].....	1
2	CCS Voice Recorder [REDACTED].....	2

List of Figures

		Page
1	Front Panel of Voice Recorder [REDACTED].....	3
2	Right Front Panel of Voice Recorder.....	3
3	Center Front Panel of Voice Recorder.....	4
4	Left Front Panel of Voice Recorder.....	5
5	Front View of Voice Recorder [REDACTED].....	5
6	Left Rear Panel of Voice Recorder.....	6
7	Center Rear Panel of Voice Recorder.....	7
8	Right Rear Panel of Voice Recorder.....	7

Description

1 INTRODUCTION

The [REDACTED] contains the crew workstations used for JLENS system operation. Supporting these workstations as well as other system functions are [REDACTED] of electronic equipment. [REDACTED]

2 EQUIPMENT DESCRIPTION

2.1 Key Product Characteristics

Key product characteristics of [REDACTED] are shown in Table 1

Table 1 Key Product Characteristics of [REDACTED]

CHARACTERISTIC	REQUIREMENT
Dimensions	[REDACTED]
Weight	[REDACTED]
Mounting	19-inch rack mount

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

CHARACTERISTIC	REQUIREMENT
Analog interfaces	[REDACTED]
Digital interfaces	[REDACTED]
Network	[REDACTED]
Remote Windows programs	[REDACTED]
Standard control interface	[REDACTED]
Front panel	[REDACTED]
Power requirement	[REDACTED]
Operating temperature	[REDACTED]
Operating humidity	[REDACTED]
Operating altitude	[REDACTED]
Non-operating temperature	[REDACTED]
Non-operating humidity	[REDACTED]
Non-operating altitude	[REDACTED]
T1 channels	[REDACTED]
Archive recording	[REDACTED]
On-line recording	[REDACTED]
MTBF	[REDACTED]

2.2 Configuration

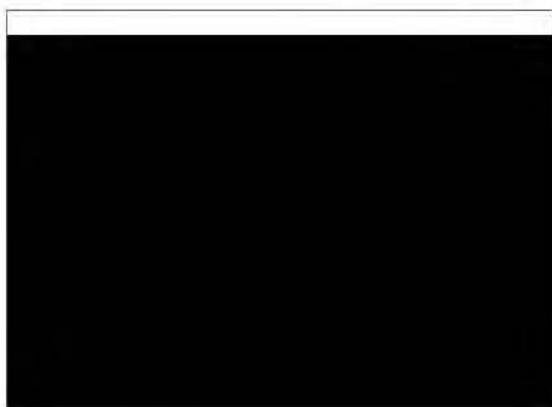
[REDACTED] configuration options specific to the [REDACTED] are shown in Table 2

Table 2 [REDACTED]

DESCRIPTION	PART NUMBER (CAGE CODE 62264)
[REDACTED]	[REDACTED]

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

The front panel of the [REDACTED] is shown in Fig. 1.



2.3

[REDACTED] Front Panel Controls and Indicators

Three LEDs (1, Fig. 2) are located to the left of the archive drive (2).

- READY indicates that there is a medium in the archive drive
- RECORD indicates that the drive is archiving
- FAULT indicates that there is a problem with the drive or medium



The audio section (4, Fig. 2) is located below the archive drive.

- VOLUME controls speaker and headphone volume
- LINE OUT provides a constant level line out jack to allow for external recording
- HEAD PHONE provides a 1/4 inch headphone jack

-
- Two USB connectors provide alphanumeric keyboard or modem connections which are used for remote diagnostics

The POWER switch (3, Fig. 2) can be left on so the voice recorder powers up when external power is supplied, or turned off to keep the voice recorder from powering up automatically when external power is supplied.

The POWER switch is operated with a key, two of which are supplied with the voice recorder. This switch is used to power up only. Avoid using this switch to power down the voice recorder.

The knob and keypad shown in Fig. 3 are located in the center of the front panel of the voice recorder. The knob and keypad are used for data selection and entry. Frequently an item in a menu is scrolled to by turning the knob. Items are then selected by pressing the knob for PUSH TO SELECT.



(b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

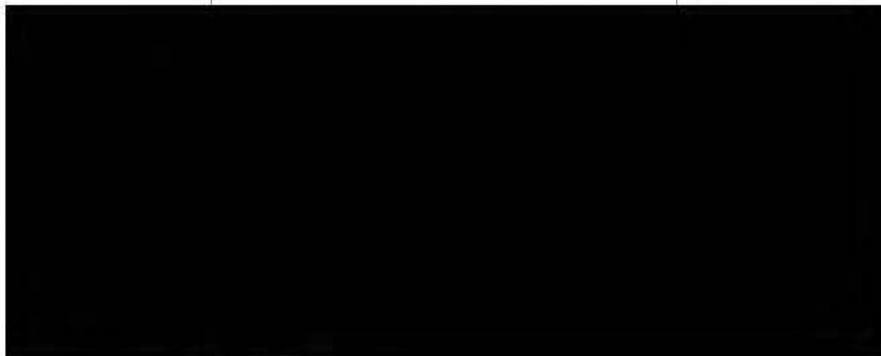
The display screen shown in Fig. 4 is located in the left third of the front panel of the voice recorder. The display screen presents information on the operation of the recorder. The bottom row of keys is referred to as the soft keys and their current functions are shown across the bottom of the display, which changes depending on context.

The keys to right of the display screen (SETUP, INFO, RECALL, and EXIT) are referred to as mode keys.

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



The front view of [REDACTED] mounted in rack 7A13A12 or 17A13A12 is shown in Fig. 5.



2.4 [REDACTED] Rear Panel

The left portion of the rear panel of the voice recorder is shown in Fig. 6 and items on the panel are identified below.

- Power on/off switch (1)
- AC power receptacle (2)
- Power supply cooling fan (3)

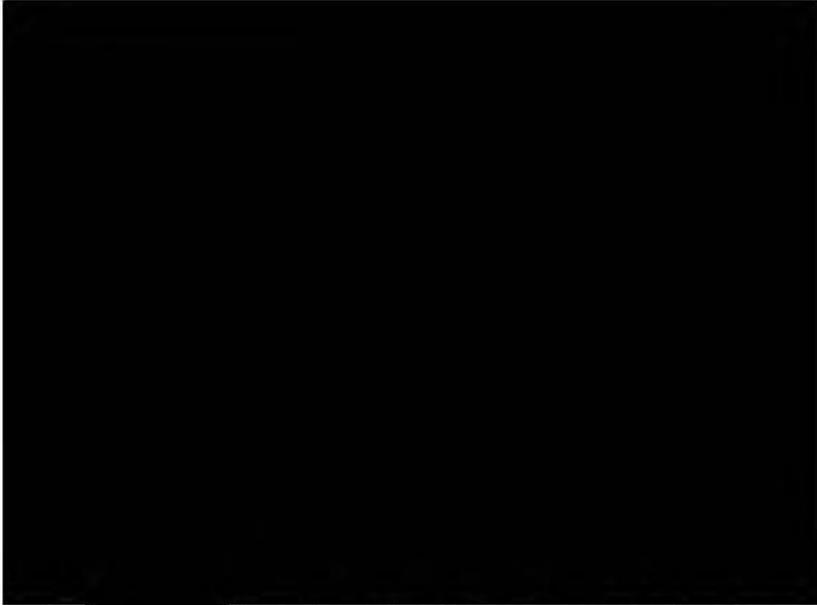
All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



The center rear panel ports of the voice recorder are identified below and shown in Fig. 7. All of the connectors are [REDACTED].

- | [REDACTED]

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



The USB ports () can be set up to use a keyboard or mouse. They can also be used to connect a USB hard drive for archiving up to . The RS232 port (,) has several uses. It can be used to receive time source data from a GPS clock and other functions.

The right portion of the rear panel (Fig. 8) of the voice recorder contains the . The is the recording/telephone board and it is connected using a splitter to the to record the voice recorder trunks. The panel contains two connectors ().



Intentionally left blank

High Speed Recorder Power On - Normal operation procedures

DMC: JLENS-A-SP-20-0001-01A-131A-A
Language: en/US
Issue no: 001
Issue Date: 2013-09-24
Title: High Speed Recorder Power On - Normal operation procedures
Security classification: Class01
Data Restrictions:

Distribution ~~DISTRIBUTION STATEMENT F - Further dissemination only as directed by the Cruise Missile Defense Systems Project Office, SFAE-MSLS-CMDS-PE-CM. Redstone Arsenal, AL 35898-5000, 24 March 2000.~~

Export control ~~WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751 et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., app 2401 et seq. Violation of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DOD Directive 5230.25.~~

Handling This information is furnished upon the condition that it will not be released to another nation without the specific authority of the Department of the Army of the United States, that it will be used for military purposes only, that individual or corporate rights originating in the information, whether patented or not, will be respected, that the recipient will report promptly to the United States, any known or suspected compromise, and that the information will be provided substantially the same degree of security afforded it by the Department of Defense of the United States. Also, regardless of any other markings on the document, it will not be downgraded or declassified without written approval of the original United States agency.

Destruction DESTRUCTION NOTICE - For classified documents, follow the procedures in DOD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM), Chapter 5, Section 7, or DOD 5200.1-R, Information Security Program Regulation, Chapter IX. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

Disclosure There are no dissemination limitations that apply to this data module.

Copyright

Applicable to: All

Responsible partner company: Raytheon

Originator:

Applicability:

QA: Unverified

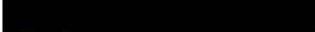
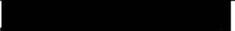
Applicable to: All

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

High Speed Recorder Power On - Normal operation procedures

Table of Contents	Page
References.....	1
Preliminary Requirements.....	2
Procedure.....	3
Requirements after job completion.....	7

List of Tables	Page
1 References.....	1
2 Required Conditions.....	2
3 Required Persons.....	2
4 Support Equipment.....	2
5 Consumables, Materials, and Expendables.....	2
6 Spares.....	3
7 Required Conditions.....	7

List of Figures	Page
1  Interior View.....	4
2  High Speed Recording Tape Drive Assembly Rear View.....	5
3  High Speed Recording Tape Drive Assembly Front View.....	5
4 High Speed Recorder 	6
5  High Speed Recorder  with Power Supply LED.....	6
6  High Speed Recorder  Cable with Connection LEDs.....	7

References

Table 1 References

Data Module/Technical Publication	Title
JLENS-A-00-00-0000-00A-131A-A	Personnel Electrostatic Discharge - Normal operation procedures
JLENS-A-SP-20-0000-01A-131A-A	Signal Data Processor (SDP) Cluster Rack (Blade Center) Power On - Normal operation procedures

Preliminary Requirements

Required Conditions

Table 2 Required Conditions

Title	Data Module
Signal Data Processor (SDP) Cluster Rack (Blade Center) Power On - Normal operation procedures	

Required Persons

Table 3 Required Persons

Category/Trade	Number Required	Trade code	Estimated time spent
System Operator/Maintainer	(1)	14E	0.50 Hour

Support Equipment

Table 4 Support Equipment

Nomenclature	Identification No.	Qty	Remarks
FLASHLIGHT	Pt. No : 6230-00-299-3035	1.00 EA	

Consumables, Materials, and Expendables

Table 5 Consumables, Materials, and Expendables

Nomenclature	Identification No.	Qty	Remarks
None			

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

Spares

Table 6 Spares

Nomenclature	Identification No.	Qty	Remarks
None			

Safety Conditions

WARNINGS

- [Redacted] Verbally inform all occupants prior to any maintenance activity.
- Hazardous voltage may be present while performing this procedure. Verify that the power source is disconnected before attempting to repair, remove, or replace any electrical component.

CAUTION

This procedure contains Electrostatic Discharge Sensitive (ESDS) hardware. Refer to the included cautions when handling these items.

Procedure

WARNINGS

- [Redacted] Verbally inform all occupants and verify that no maintenance is being performed. Failure to comply may result in death or injury to personnel and damage to equipment.
- Hazardous voltage may be present while performing this procedure. Verify that the power source is disconnected before attempting to repair, remove, or replace any electrical component. Failure to comply may result in death or injury to personnel and damage to equipment.

Note 1

[Redacted]

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

Note 2

To perform high speed recorder power on after [REDACTED] initialization, perform Step 1 through Step 8. To perform a high speed recorder power cycle, perform Step 9 through Step 15.

- 1 Locate red equipment rack [REDACTED] (2, Fig. 1) on [REDACTED] forward interior wall.

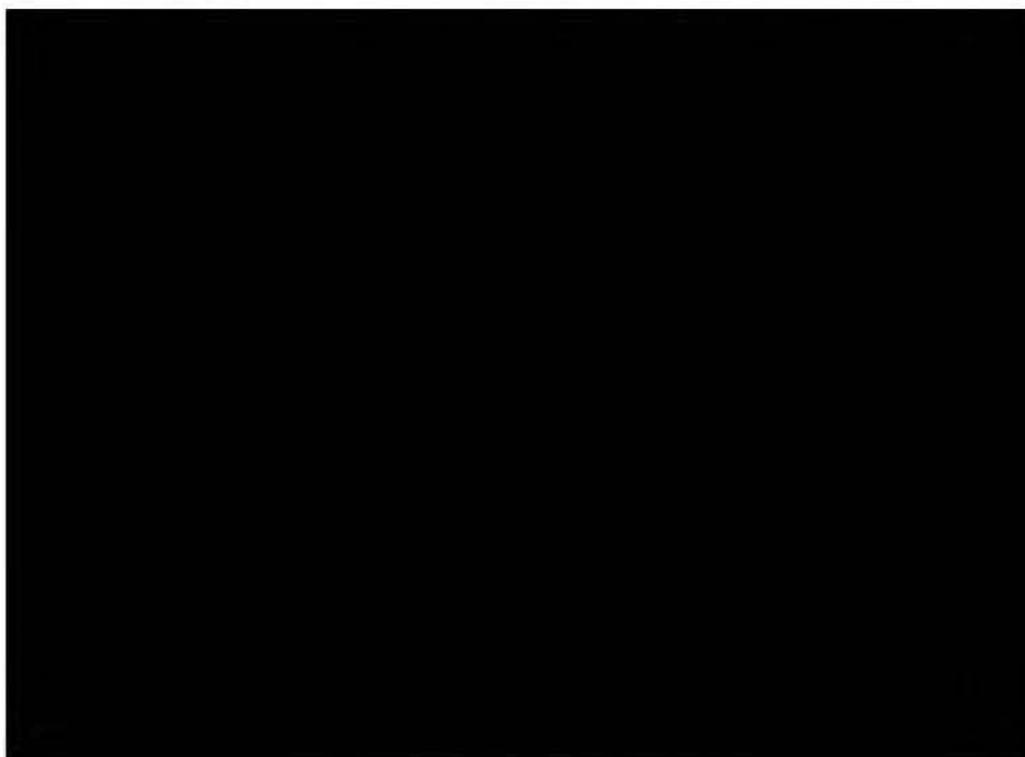


Figure 1 [REDACTED] Interior View.

CAUTION

Electrostatic Discharge Sensitive (ESDS) hardware is present in this location as indicated by the ESDS symbol. Personnel electrostatic charge must be dissipated prior to contact with any ESDS hardware. Refer to JLENS-A-00-00-0000-00A-131A-A for directions to dissipate personnel electrostatic charge. Failure to comply may result in immediate or latent ESD damage to equipment.

- 2 Verify power switches (1, Fig. 2) (3) on rear of high speed recording tape drive [REDACTED] (2) are set to | (ON) position.

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



- 3 Verify power switches (1, Fig. 2) (3) on rear of high speed recording tape drive [redacted] (2) are set to | (ON) position.
- 4 Verify 12 disk drive (2, Fig. 3) power LEDs (3) on front of high speed recording tape drive [redacted] (1) are illuminated and not flashing.



- 5 Verify 12 disk drive (2, Fig. 3) power LEDs (3) on front of high speed recording tape drive [redacted] (1) are illuminated and not flashing.
- 6 Verify high speed data recorder assembly [redacted] (3, Fig. 4) power switches (1) (2) on rear of recorder are set to | (ON) position.

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

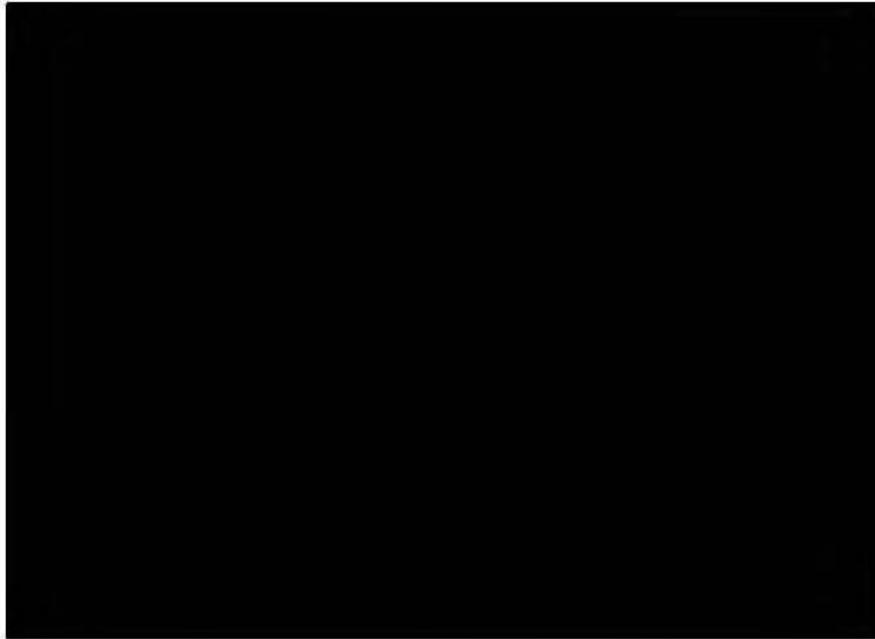


- 7 Verify POWER LEDs (4, Fig. 5) on rear of both high speed data recorder assembly power supplies (2) (3) are illuminated and not flashing.



- 8 Verify all LEDs (2-8, Fig. 6) on rear of high speed recorder assembly (1) are illuminated and not flashing.

All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



- 9 Set both high speed data recorder [REDACTED] (3, Fig. 4) power switches (1) (2) on rear of recorder to O (OFF) position.
- 10 Wait for minimum of 5 seconds.
- 11 Set both high speed data recorder [REDACTED] (3, Fig. 4) power switches (1) (2) on rear of recorder to I (ON) position.
- 12 Verify [REDACTED] (8, Fig. 6) on recorder assembly (1) are illuminated and not flashing.
- 13 Verify [REDACTED] (7, Fig. 6) on recorder assembly (1) are flashing.
- 14 Verify [REDACTED] (6, Fig. 6) on recorder assembly (1) are illuminated and not flashing.
- 15 Verify [REDACTED] (3, Fig. 6) on recorder assembly (1) are flashing.

Requirements after job completion

Required Conditions

Table 7 Required Conditions

Title	Data Module
None	

Intentionally left blank

Start Data Recording - Normal operation procedures

DMC: JLENS-A-OP-00-0010-00A-131A-A
 Language: en/US
 Issue no: 001
 Issue Date: 2013-02-10
 Title: Start Data Recording - Normal operation procedures
 Security classification: Class01
 Data Restrictions:

Distribution

Export control ~~WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751 et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., app 2401 et seq. Violation of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DOD Directive 5230.25.~~

Handling

This information is furnished upon the condition that it will not be released to another nation without the specific authority of the Department of the Army of the United States, that it will be used for military purposes only, that individual or corporate rights originating in the information, whether patented or not, will be respected, that the recipient will report promptly to the United States, any known or suspected compromise, and that the information will be provided substantially the same degree of security afforded it by the Department of Defense of the United States. Also, regardless of any other markings on the document, it will not be downgraded or declassified without written approval of the original United States agency.

Destruction

DESTRUCTION NOTICE - For classified documents, follow the procedures in DOD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM), Chapter 5, Section 7, or DOD 5200.1-R, Information Security Program Regulation, Chapter IX. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

Disclosure

There are no dissemination limitations that apply to this data module.

Copyright

Responsible partner company: Raytheon Company/49956

Applicable to: All

Originator: Raytheon Company/49956

Applicability: All

QA: Unverified

Applicable to: All

Start Data Recording - Normal operation procedures

Table of Contents	Page
Preliminary Requirements.....	1
Procedure.....	2
Requirements after job completion.....	7

List of Tables	Page
1 Required Conditions.....	1
2 Support Equipment.....	1
3 Consumables, Materials, and Expendables.....	1
4 Spares.....	2
5 Required Conditions.....	7

List of Figures	Page
1 Primary Commands Panel.....	3
2 Config Setup Window.....	4
3 Data Recording Window.....	6

Preliminary Requirements

Required Conditions

Table 1 Required Conditions

Title	Data Module
None	

Support Equipment

Table 2 Support Equipment

Nomenclature	Identification No.	Qty	Remarks
None			

Consumables, Materials, and Expendables

Table 3 Consumables, Materials, and Expendables

Nomenclature	Identification No.	Qty	Remarks
None			

Spares

Table 4 Spares

Nomenclature	Identification No.	Qty	Remarks
None			

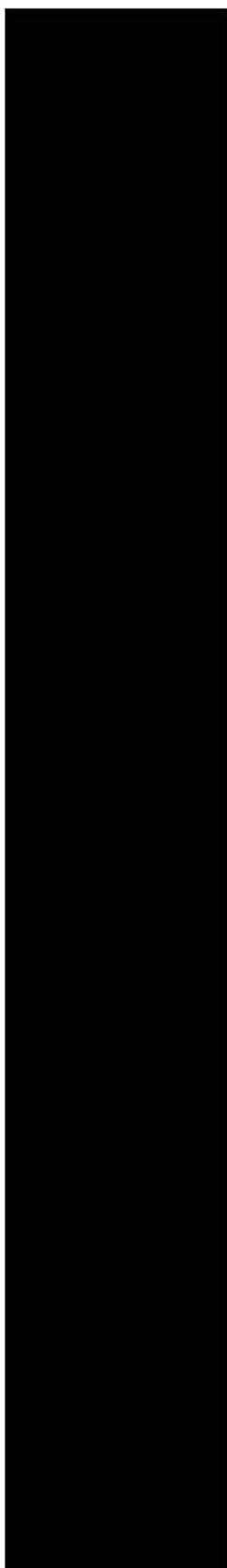
Safety Conditions

None

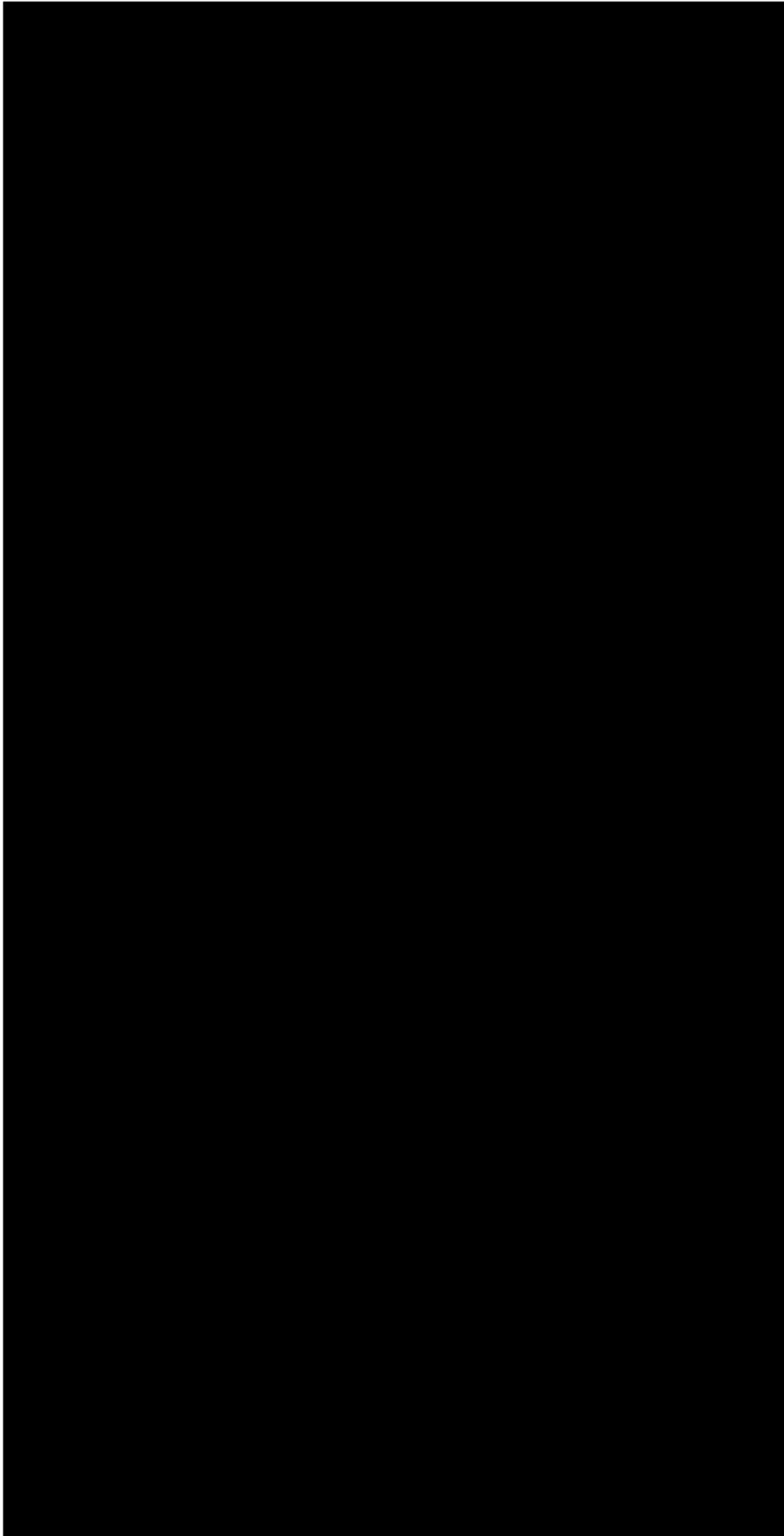
Procedure

- 1 Click Config Setup button in Primary Commands panel (Fig. 1). Config Setup window opens (Fig. 2).

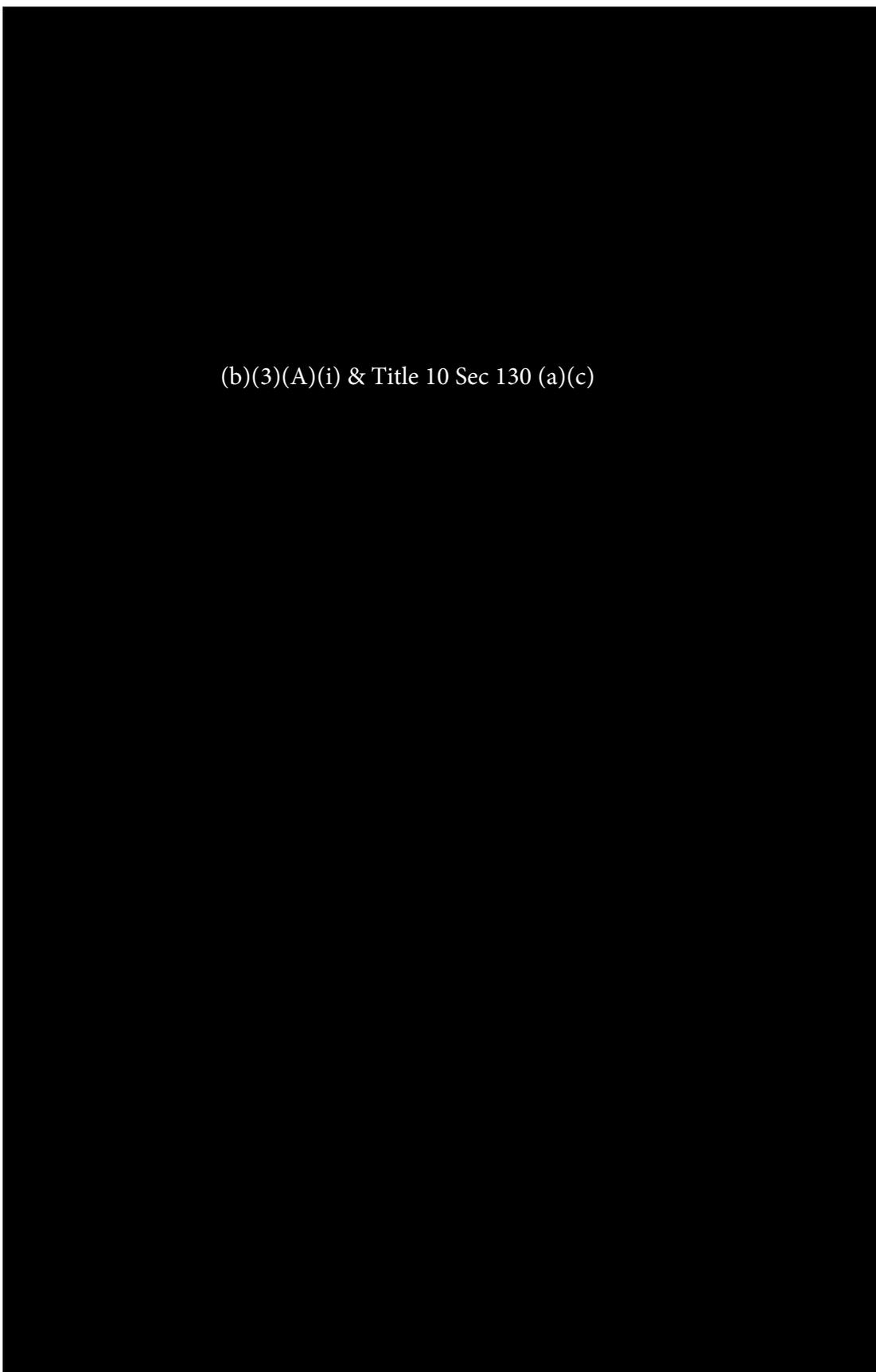
All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



All redactions on this page per (b)(3)(A)(i) & Title 10 Sec 130 (a)(c)



-
- 2 Click Data Recording button in Config Setup window. Data Recording Window opens (Fig. 3).



(b)(3)(A)(i) & Title 10 Sec 130 (a)(c)

-
- 3 Select desired parameters and click Start button in CPG Data Recorder Controls pane.
 - 4 Click Close icon.
 - 5 Click Close icon in Config Setup window (Fig. 2).

Requirements after job completion

Required Conditions

Table 5 Required Conditions

Title	Data Module
None	

Intentionally left blank