

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

**CNSS Instruction  
No. 3021  
September 2002**



**(U) OPERATIONAL SECURITY DOCTRINE  
FOR THE AN/CYZ-10/10A  
DATA TRANSFER DEVICE (DTD)**

This document contains information exempt from mandatory disclosure under the FOIA. Exemption 3 applies.

The information contained herein that is marked U//FOUO is for the exclusive use of DoD, other U.S. Government, and U.S. contractor personnel with a need-to-know. Such information is specifically prohibited from posting on unrestricted bulletin boards or other unlimited access applications, and to an e-mail alias.

Approved for Release by NSA on 09-25-2024, FOIA Case # 51573

**THIS DOCUMENT PROVIDES MINIMUM STANDARDS. FURTHER  
INFORMATION MAY BE REQUIRED BY YOUR DEPARTMENT OR AGENCY.**

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

**CNSS INSTRUCTION  
No. 3021**



**Committee on National Security Systems**

**National Manager**

**FOREWORD**

1. (U) This Instruction provides minimum security standards for the protection and use of the AN/CYZ-10/10A Data Transfer Device (DTD) and associated Communications Security (COMSEC) material. Please check with your department or agency for applicable implementing documents.

2. (U) This Instruction supersedes NSTISSI No. 3021, Operational Security Doctrine for the AN/CYZ-10/10A DTD, dated September 1998.

3. (U) Representatives of the Committee on National Security Systems (CNSS) may obtain additional copies of this Instruction from the address listed below.

4. (U) U.S. Government contractors are to contact their appropriate government agency or Contracting Officer Representative regarding distribution of this document.

5. (U//FOUO)



(b) (3) - P.L. 86-36

*Michael V. Hayden*  
**MICHAEL V. HAYDEN**  
Lieutenant General, USAF

CNSS Secretariat  National Security Agency . 9800 Savage Road STE 6716 . Ft Meade MD 20755-6716



~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

**(U) OPERATIONAL SECURITY DOCTRINE**  
**FOR THE AN/CYZ-10/10A**  
**DATA TRANSFER DEVICE (DTD)**

(U) **PURPOSE AND SCOPE**..... I  
(U) **REFERENCES** ..... II  
(U) **DEFINITIONS**..... III  
(U) **EQUIPMENT/SYSTEM DESCRIPTION/LEVEL OF USE** ..... IV  
(U) **KEYING INFORMATION** ..... V  
(U) **CLASSIFICATION**..... VI  
(U) **CONTROL REQUIREMENTS** ..... VII  
(U) **RISK FACTORS/SECURITY MEASURES** ..... VIII  
(U) **TRANSFERRING COMSEC KEY** ..... IX  
(U) **MAINTENANCE** ..... X  
(U) **DISPOSITION/DESTRUCTION** ..... XI  
(U) **REPORTABLE COMSEC INCIDENTS/**..... XII  
**INSECURE PRACTICES**  
(U) **EXCEPTIONS**..... XIII

**(U) SECTION I - PURPOSE AND SCOPE**

1. (U) Purpose - This Instruction contains minimum security standards for the protection and use of the AN/CYZ-10/10A DTD, and its associated components and Communications Security (COMSEC) material.
2. (U) Application - The provisions of this doctrine apply to all departments and agencies of the U.S. Government and their contractors who handle, distribute, account for, store, use, or dispose of the DTD and associated COMSEC material.
3. (U) Doctrinal Conflicts - Any conflicts between the requirements contained in this doctrine and any other national-level publication should be identified and submitted for resolution to the Director, National Security Agency (DIRNSA), Information Assurance Policy, Procedures and Insecurities Division. However, this does not preclude any department or agency of the U.S. Government from applying more stringent security measures to their equipment than this doctrine requires.

**UNCLASSIFIED//~~FOR OFFICIAL USE ONLY~~**

**(U) SECTION II - REFERENCES**

4. (U) This doctrine makes reference to a number of other national-level documents. A listing of these documents is contained in ANNEX A.

**(U) SECTION III - DEFINITIONS**

5. (U) Definitions and acronyms contained in Reference a apply to this doctrine. Additional definitions of specialized terms that are unique to this doctrine are contained in ANNEX B.

**(U) SECTION IV - EQUIPMENT/SYSTEM DESCRIPTION/LEVEL OF USE**

6. (U//~~FOUO~~)

7. (U//~~FOUO~~)

8. (U//~~FOUO~~)

9. (U//~~FOUO~~)

(U//~~FOUO~~)

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

[Redacted]

10. (U//FOUO)

[Redacted]

(U) SECTION V - KEYING INFORMATION

11. (U) Controlling Authority - Reference b describes the responsibilities of organizations that serve as Controlling Authorities for COMSEC keying material and provides guidance for fulfilling those responsibilities.

(b) (3) - 18 USC 798  
(b) (3) - P.L. 86-36

12. (U) Local Key Encryption Key (LKEK)

a. (U//FOUO)

[Redacted]

b. (U//FOUO)

c. (U//FOUO)

13. (U) CIK

a. (U//FOUO)

[Redacted]

b. (U//FOUO)

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

c. (U//FOUO) [Redacted]  
[Redacted]  
(1) (U//FOUO) [Redacted]  
[Redacted]  
(2) (U//FOUO) [Redacted]  
[Redacted]  
d. (U//FOUO) [Redacted]  
[Redacted]  
e. (U//FOUO) [Redacted]  
[Redacted]  
(U//FOUO) [Redacted]  
[Redacted]

14. (U) Transfer Key Encryption Key (TrKEK)

a. (U//FOUO) [Redacted]  
[Redacted]  
b. (U//FOUO) [Redacted]  
[Redacted]  
c. (U//FOUO) [Redacted]  
[Redacted]

(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

d. (U) Cryptoperiod

(1) (U//~~FOUO~~)

[Redacted content]

(2) (U//~~FOUO~~)

(U//~~FOUO~~)

15. (U//~~FOUO~~)

(U) SECTION VI - CLASSIFICATION

16. (U//~~FOUO~~)

[Redacted content]

a. (U//~~FOUO~~)

b. (U//~~FOUO~~)

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

c. (U) Data Transfer Classification

(1) (U//FOUO)

[Redacted]

(2) (U//FOUO)

[Redacted]

d. (U//FOUO)

[Redacted]

17. (U//FOUO)

[Redacted]

18. (U//FOUO)

[Redacted]

[Redacted]

19. (U) Audit Data - After review by supervisory personnel, audit data uploaded to an information system (IS) may be declassified.

20. (U//FOUO)

[Redacted]

(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36



~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

(U) SECTION VII - CONTROL REQUIREMENTS

21. (U) DTD

a. (U) Physical Security – Each user shall regularly verify the serial number on the DTD case for correctness. Also, the physical integrity of the DTD housing shall be regularly checked for any security breaches.

b. (U//FOUO) [Redacted]

(1) (U) Single segment loading of the key, per short title, with the unused segments remaining in the canister until they become effective.

(2) (U) Full canister (edition) per short title of keying material, to be loaded into the DTD at one time.

(U) NOTE: This is permitted with the understanding that the Controlling Authority accepts the risk of having to supersede an entire edition of keying material if a compromise occurs.

(3) (U) No more than one canister of keying material (per short title), not to exceed twelve months and one spare month of keying material, shall be held in a DTD at any given time.

(4) (U) The only exception to the “one canister” rule per DTD is that the follow-on-canister of keying material can be loaded into the DTD at any time during the final month prior to the current edition being superseded.

(5) (U) Canisters containing key and segments extracted from the canister shall be secured to the level of classification of the key until the segment or canister is superseded, at which time they shall be destroyed. Retaining the segments outside of the canister is not recommended.

(6) (U) Physical keying material loaded into a DTD may be transferred from the DTD to the LMD/KP and stored there until supersession, to be reissued to the DTD if necessary. For accounts without reasonable access to an LMD/KP, a backup canister may be stored but should be avoided if possible.

(U//FOUO) [Redacted]

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

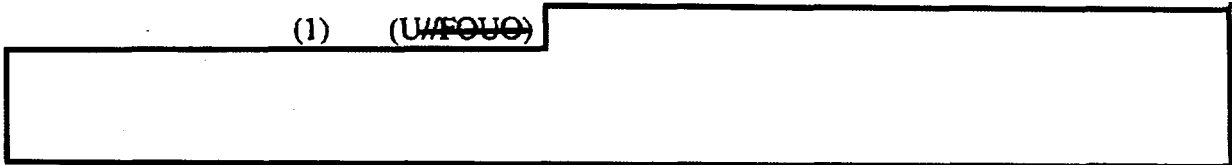


c. (U) Loading Electronic Key – Refer to Section IX – Transferring COMSEC Key, for guidance on loading electronic key into the DTD.

(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36

d. (U) Audit Data

(1) (U//FOUO)



(a) (U) Mandatory Minimum DTD Auditable Events that shall be reviewed:

- (U) Alarm event entry
- (U) Audit trail full
- (U) Audit trail initialization
- (U) Audit upload
- (U) CIK initialized
- (U) Connection to a device
- (U) Date change
- (U) Time change
- (U) DTD zeroized
- (U) Key file received
- (U) Key file transferred
- (U) Key received
- (U) Key transmitted

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

- (U) Key zeroized (destroyed)
- (U) DTD serial number change

(b) (U) Recommended DTD Auditable Events:

- (U) CIKs properly secured when not in use
- (U) Proper accounting procedures for the DTD

(2) (U//FOUO)

[Redacted content]

(3) (U//FOUO)

e. (U) Key Accounting and Inventory

(1) (U//FOUO)

[Redacted content]

(2) (U//FOUO)

f. (U//FOUO)

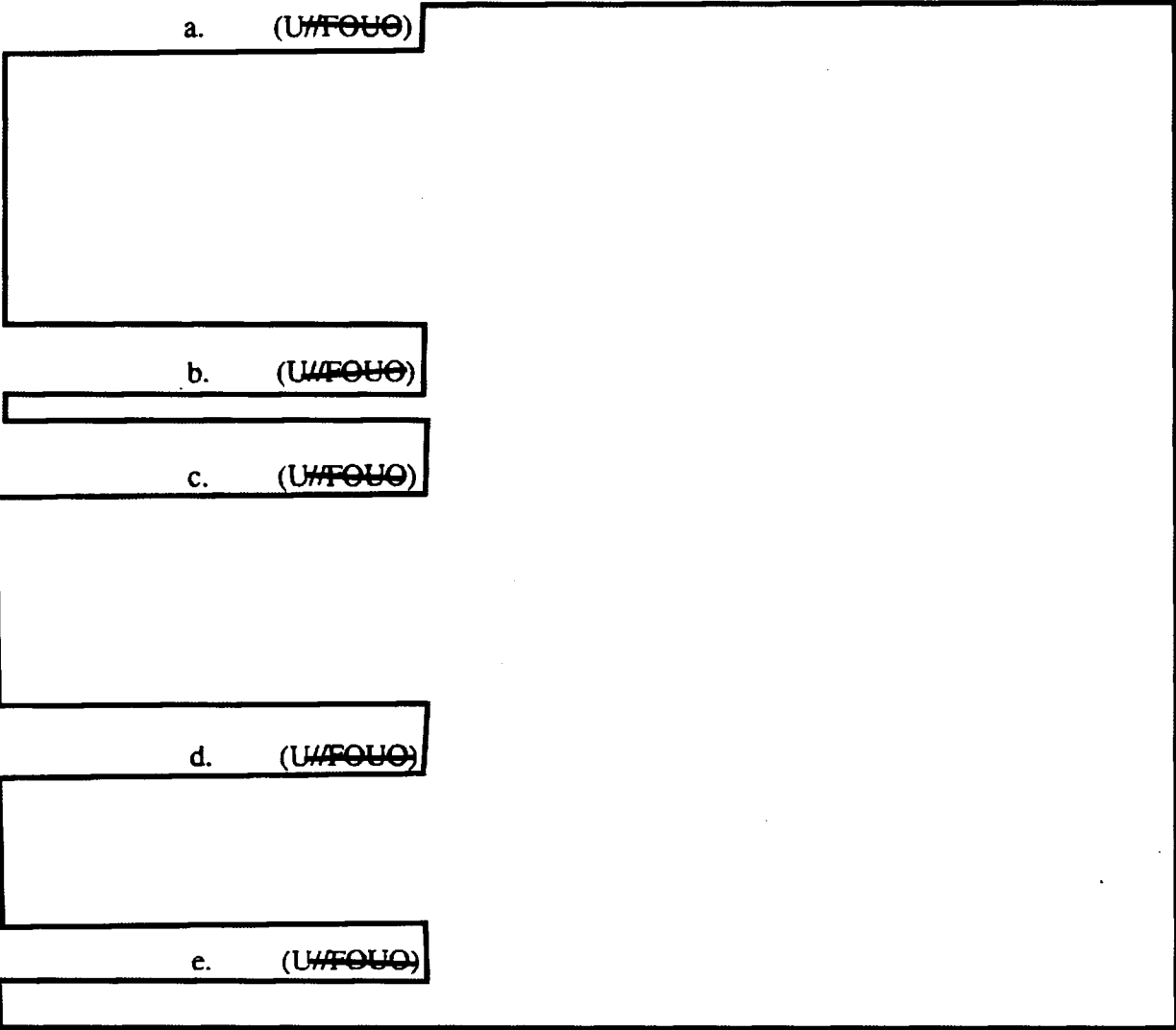
(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~



22. (U) CIK

a. (U//~~FOUO~~)



b. (U//~~FOUO~~)

c. (U//~~FOUO~~)

d. (U//~~FOUO~~)

e. (U//~~FOUO~~)

(b) (3)-18 USC 798  
(b) (3)-P.L. 86-36

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

**UNCLASSIFIED//~~FOR OFFICIAL USE ONLY~~**

**(U) SECTION VII - RISK FACTORS/SECURITY MEASURES**

23. (U) DTD Risk - The risk to the DTD, the keys and information contained in the DTD, and to the information these keys secure can vary drastically. When the risk is higher, additional restrictions on the DTD must be implemented beyond the minimum security requirements stated below.

24. (U//~~FOUO~~)

- (U)
- (U)
- (U)
- (U)
- (U)
- (U)
- (U)

25. (U) Additional Security Measures - Depending on the level of risk, the following additional security measures are added to the minimum security requirements. The measures are cumulative (i.e., each successive group includes those listed previously).

a. (U) LOW RISK - Follow minimum security requirements.

b. (U//~~FOUO~~)

c. (U//~~FOUO~~)

d. (U//~~FOUO~~)

**UNCLASSIFIED//~~FOR OFFICIAL USE ONLY~~**

26. (U) Risk Minimization - To minimize the necessity for applying additional security restrictions, user organizations should consider the following recommendations to reduce the level of risk:

a. (U//~~FOUO~~)

b. (U//~~FOUO~~)

c. (U//~~FOUO~~)

**(U) SECTION IX - TRANSFERRING COMSEC KEY**

27. (U//~~FOUO~~)

a. (U//~~FOUO~~)

b. (U//~~FOUO~~)

**CAUTION:** (U//~~FOUO~~)

28. (U//~~FOUO~~)

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

29. (U//~~FOUO~~)

(U) SECTION X - MAINTENANCE

30. (U//~~FOUO~~)

31. (U//~~FOUO~~)

(U) SECTION XI - DISPOSITION/DESTRUCTION

32. (U//~~FOUO~~)

33. (U//~~FOUO~~)

34. (U//~~FOUO~~)

35. (U//~~FOUO~~)

36. (U//~~FOUO~~)

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

(b) (3) - 18 USC 798  
(b) (3) - P.L. 86-36

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

(U) SECTION XII - REPORTABLE COMSEC INCIDENTS/  
INSECURE PRACTICES

37. (U) DTD

a. (~~U//FOUO~~)

[Redacted]

b. (~~U//FOUO~~)

[Redacted]

38. (~~U//FOUO~~)

[Redacted]

39. (~~U//FOUO~~)

[Redacted]

a. (U)

[Redacted]

b. (U)

c. (~~U//FOUO~~)

d. (U)

e. (~~U//FOUO~~)

[Redacted]

f. (U)

[Redacted]



**UNCLASSIFIED//~~FOR OFFICIAL USE ONLY~~**

- g. (U) [Redacted]
- h. (U) [Redacted]
- i. (U) [Redacted]
- (U//~~FOUO~~) [Redacted]
- 40. (U//~~FOUO~~) [Redacted]
- a. (U//~~FOUO~~) [Redacted]
- b. (U//~~FOUO~~) [Redacted]
- c. (U//~~FOUO~~) [Redacted]

**(U) SECTION XIII - EXCEPTIONS**

41. (U) Waivers - Requests for exceptions to the provisions of this doctrine must be approved, on a case-by-case basis, prior to implementation. Each request must include a complete operational justification and shall be submitted through command channels to DIRNSA, Information Assurance Policy, Procedures and Insecurities Division for review. Accounting related issues concerning the DTD shall be resolved within department/agency channels.

3 Encls:

- ANNEX A - References
- ANNEX B - Definitions and Acronyms
- ANNEX C - DTD Routine Demilitarization/Destruction

(b) (3) -18 USC 798
(b) (3) -P.L. 86-36

## ANNEX A

(U) REFERENCES

(U) The following national-level documents are referenced in this doctrine or are otherwise applicable for U.S. Government departments and agencies:

- a. (U) NSTISSI No. 4009, National Information Systems Security (INFOSEC) Glossary, dated September 2000.
- b. (U) NSTISSI No. 4006, Controlling Authorities for COMSEC Material, dated 2 December 1991.
- c. (U) NSTISSI No. 4005, Safeguarding COMSEC Facilities and Material, dated August 1997.
- d. (U) NSTISSI No. 4001, Controlled Cryptographic Items, dated July 1996.
- e. (U) NSTISSI No. 4000, Communications Security Equipment Maintenance and Maintenance Training, dated January 1998.
- f. (U) NSTISSI No. 4004, Routine Destruction and Emergency Protection of COMSEC Material, dated 11 March 1987.
- g. (U) NSTISSI No. 4003, Reporting and Evaluating COMSEC Incidents, dated 2 December 1991.

ANNEX A to  
CNSS Instruction No. 3021

(b) (3) - 18 USC 798  
(b) (3) - P.L. 86-36

ANNEX B

(U) DEFINITIONS AND ACRONYMS

1. (U) Definitions - The following definitions apply to this doctrine:

- a. (U//FOUO) [Redacted]
- b. (U//FOUO) [Redacted]
- c. (U//FOUO) [Redacted]
- d. (U//FOUO) [Redacted]
- e. (U//FOUO) [Redacted]
- f. (U//FOUO) [Redacted]
- g. (U//FOUO) [Redacted]
- h. (U//FOUO) [Redacted]
- i. (U//FOUO) [Redacted]
- j. (U//FOUO) [Redacted]
- k. (U//FOUO) [Redacted]
- l. (U//FOUO) [Redacted]

ANNEX B to  
CNSS Instruction No. 3021

m. (U//FOUO) [Redacted]

n. (U//FOUO) [Redacted]

o. (U//FOUO) [Redacted]

p. (U//FOUO) [Redacted]

q. (U//FOUO) [Redacted]

2. (U) Acronyms – The following acronyms are used in this document:

<u>Acronym</u>	<u>Expansion</u>
CCI	Controlled Cryptographic Item
CIK	Crypto-Ignition Key
COMSEC	Communications Security
COR	Central Office of Record
DIRNSA	Director, National Security Agency
DTD	Data Transfer Device
EKMS	Electronic Key Management System
INFOSEC	Information Systems Security
KEK	Key Encryption Key
LKEK	Local Key Encryption Key
LMD/KP	Local Management Device/Key Processor
NATO	North Atlantic Treaty Organization
NSTISSI	National Security Telecommunications and Information Systems Security Instruction
STE	Secure Terminal Equipment
STU	Secure Telephone Unit
TrKEK	Transfer Key Encryption Key
UAS	User Application Software

(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

ANNEX C

(U) DTD Routine Demilitarization/Destruction

(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36

1. (U) Who May Perform Routine Demilitarization/Destruction?

a. (U) MILITARY - Demilitarization/destruction generally is performed by the Service element, e.g., Tobyhanna Army Depot.

b. (U) CONTRACTORS - If the DTD is Government Furnished Equipment (GFE), return it per your contract or to the activity from which it was acquired. If contractor-owned, go to 2.b. below.

2. (U) Demilitarization

a. (U) Determine if equipment can be re-used. Check with the local Asset Recovery Office. If no local or Service use is found for the equipment, contact the National Reserve Program on 410-854-6154, to see if they need to acquire the equipment.

b. (U) Demilitarize the equipment:

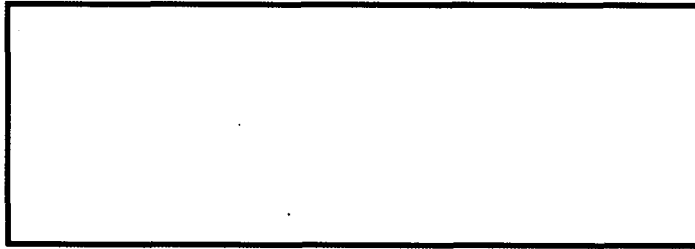
(U//FOUO)

c. (U//FOUO)

ANNEX C to  
CNSS Instruction No. 3021

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~



(b) (3) -18 USC 798  
(b) (3) -P.L. 86-36

d. (U) Dispose of equipment hulk:

(1) (U) Military: Return equipment hulk to a Defense Reutilization Marketing Office (DRMO). If DRMO does not want the hulk, destroy locally (according to local trash disposal ordinances).

(2) (U) Contractor: locally destroy in a proper manner.

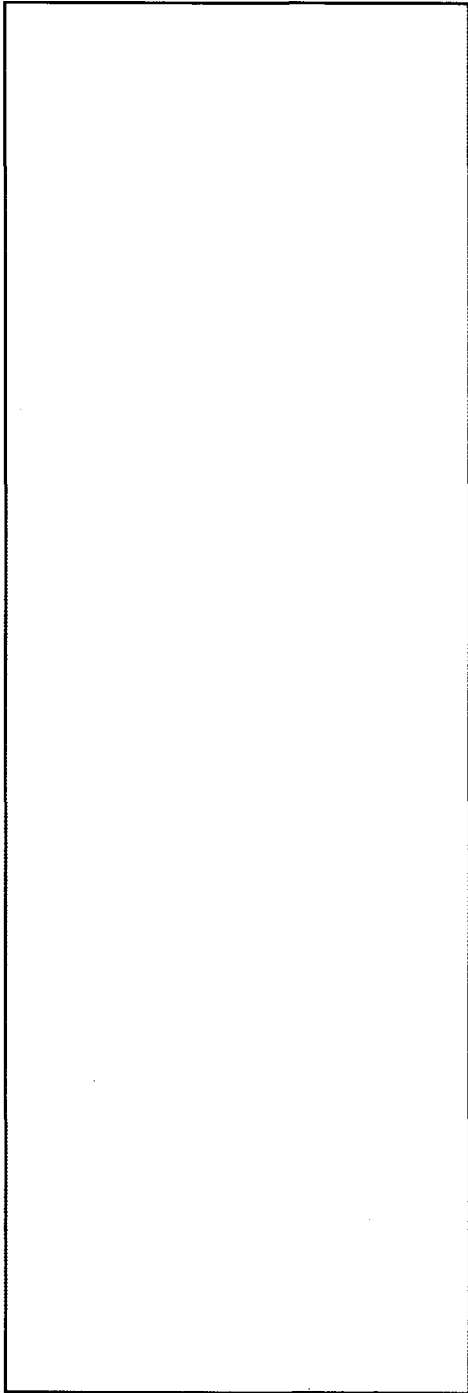
(U) NOTE: While not required, it is recommended that the remaining hulk be smashed prior to disposal.



~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

DISTRIBUTION:



(b)(3)-P.L. 86-36

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~

~~UNCLASSIFIED//FOR OFFICIAL USE ONLY~~