DOD 5220.22-M CLEARING AND SANITIZING MATRIX [NISPOM 8-306]

MEDIA	CLEAR	SANITIZE
Magnetic Tape		
Type I	a or b	a, b, or m
Type II	a or b	b or m
Type III	a or b	m
Magnetic Disk		
Bernoullis	a, b, or c	m
Floppies	a, b, or c	m
Non-Removable Rigid Disk	c	a, b, d , or m
Removable Rigid Disk	a, b, or c	a, b, d , or m
Optical Disk		
Read Many, Write Many	c	m
Read Only	m, n	
Write Once, Read Many (Worm)	m, n	
Memory		
Dynamic Random Access Memory (DRAM)	c or g	c , g, or m
Electronically Alterable PROM (EAPROM)	i	j or m
Electronically Erasable PROM (EEPROM)	i	h or m
Erasable Programmable (ROM (EPROM)	k	l then c, or m
Flash EPROM (FEPROM)	i	c then i, or m
Programmable ROM (PROM)	c	m
Magnetic Bubble Memory	c	a, b, c, or m
Magnetic Core Memory	c	a, b, e, or m
Magnetic Plated Wire	c	c and f, or m
Magnetic Resistive Memory	c	m
Nonvolatile RAM (NOVRAM)	c or g	c, g, or m
Read Only Memory ROM	m	
Static Random Access Memory (SRAM)	c or g	c and f, g, or m
Equipment		
Cathode Ray Tube (CRT)	g	q

Printers		
Impact	g	p then g
Laser	g	o then g

Clearing and Sanitization Methods:

- a. Degauss with a Type I degausser.
- b. Degauss with a Type II degausser.

c. Overwrite all addressable locations with a single character.

d. Overwrite all addressable locations with a character, its complement, then a random character and verify. THIS METHOD IS NOT APPROVED FOR SANITIZING MEDIA THAT CONTAINS TOP SECRET INFORMATION.

e. Overwrite all addressable locations with a character, its complement, then a random character.

f. Each overwrite must reside in memory for a period longer than the classified data resided.

g. Remove all power to include battery power.

h. Overwrite all locations with a random pattern, all locations with binary zeros, all locations with binary ones.

i. Perform a full chip erase as per manufacturer's data sheets.

- j. Perform i above, then c above, a total of three times.
- k. Perform an ultraviolet erase according to manufacturer's recommendation.
- 1. Perform k above, but increase time by a factor of three.
- m. Destroy Disintegrate, incinerate, pulverize, shred, or melt.
- n. Destruction required only if classified information is contained.
- o. Run five pages of unclassified text (font test acceptable).
- p. Ribbons must be destroyed. Platens must be cleaned.

q. Inspect and/or test screen surface for evidence of burned-in information. If present, the cathode ray tube must be destroyed.