

MIL-STD-1343(NAVY)
1 JULY 1969

MILITARY STANDARD

GLOSSARY OF TERMS FOR
ELECTRONIC AND WEAPONS CONTROL
INTERFACE FUNCTIONS
(NAVAL SHIP COMBAT SYSTEMS)



FSC EDS

MIL-STD-1343(NAVY)
1 July 1969

DEPARTMENT OF DEFENSE

WASHINGTON, D. C. 20301

Glossary of Terms For Electronic
and Weapons Control Interface
Functions (Naval Ship Combat
Systems)

MIL-STD-1343(NAVY)

1. This Military Standard is mandatory for use by all interested Commands of the Department of the Navy.

2. Recommended corrections, additions, or deletions should be addressed to Commander, Naval Ship Engineering Center, Department of the Navy, Center Building, Prince Georges Center, Hyattsville, Maryland 20782.

MIL-STD-1343(NAVY)
1 July 1969

FOREWORD

The purpose of this standard is to establish uniform terms for electronic and weapons control interface functions to be used in engineering interface documentation, in order that engineering, procurement, inspection and other interested personnel of the Department of Defense and defense contractors will utilize the same terminology where applicable.

Compliance with this standard will promote uniformity among and within the services as to the nature of the function named and will tend to reduce misunderstandings or disagreements as to the meaning of a term when used.

MIL-STD-1343(NAVY)
1 July 1969

CONTENTS

PARAGRAPH		PAGE
1	General	1
1.1	scope	1
1.2	Explanatory Notes	1
1.2.1	General	1
1.2.2	User Qualifications	1
1.2.3	Additional Required Documentation	1
2	Definitions	1
2.1	Interface	1
2.2	Interface Function	1
2.3	Naval Ship Combat System	2
2.4	System Interfaces	2
3	Building the Glossary	2
3.1	Organizing the Interface Function	2
3.2	The Glossary Format	4
3.2.1	Part I - Terms	4
3.2.2	Part II - Term Modifiers	6
3.2.3	Part III - Key Word Index	6
3.2.4	Part IV - Code Index	6
3.3	Conventions	7
3.3.1	Construction of Terms	7
3.3.2	Term Modifiers	9
3.3.3	Cross References	9
3.3.4	Use of the Symbol (+)	10
3.3.5	Special Provisions to Aid Alphabetization	10
3.3.6	Key Word Index	11
3.3.7	Code Index	11
4	Guidelines - How to Use the Glossary	12
4.1	Application	12
4.2	To Determine the Meaning of a Term Already Documented	14
4.3	To Determine the Correct Term, Knowing the Description of an Interface Function	14
4.4	To identify a Term or Modifier by its code Number	16
5	Glossary	19
5.1	Part I - Interface Functions (Terms)	19
5.2	Part II - Term Modifiers	89
5.3	Part III - Key Word Index	105
5.4	Part IV Code Index	133

MIL-STD-1343(NAVY)
1 July 1969

CONTENTS (Cont'd)

	PAGE
FIGURES	
1 System Interfaces	3
2 Basic Weapons Control System	5
3 The Hierarchy Structure	17
TABLE	
I Coding Structure	13

MIL-STD-1343(NAVY)
1 July 1969

1. General.

This Standard contains standard terms for the interface functions which may be designed to flow through the interfaces of naval ship combat systems except for the Fleet Ballistic Missile (FBM) system, for which see NAVORD 0D17665, FBM Weapon System Standard Nomenclature List.

1.2 Explanatory Notes.

1.2.1 General. This glossary provides a list of standard electronic and weapons control interface function terms to be used in engineering interface documentation. Each term is individually defined in order to make its meaning clear and unique among all the other terms. Each term is presented along with its description of its interface function. Flexibility is provided by term modifiers, which are supplied to be used to amplify or refine the meaning of any term when appropriate. Ease of entry, coupled with efficiency in the location of the proper term, is enhanced by liberal cross-referencing and by a complete Key Word Index. The material is designed for ready handling by automatic data processing methods, which insures ease of updating to maintain currency.

1.2.2 User qualifications. The user is presumed to be conversant with engineering practice in the field of naval ship combat systems. He is also presumed to understand the principles of interface documentation and to have studied this Standard, particularly the rationale of term construction, the glossary format, and the guidance on how to use the glossary.

1.2.3 Additional required documentation. It is necessary that the technical personnel, who are preparing interface documentation for a particular naval ship combat system, select the applicable terms, and, in addition, list the pertinent technical data needed to properly describe them within the framework of that specific installation.

2. Definitions.

2.1 Interface. An interface is an inter- or intra-ship system component boundary through which flows functional information or physical action/relation which causes such ships, systems, or system components to be mutually dependent or responsive.

2.2 Interface Function. An interface function is a unit of functional information or physical action/relation which flows through an interface. It is a discrete electrical, electronic, or mechanical information identity or action identity that can be defined by its characteristics or time relationship.

MIL-STD-1343(NAVY)
1 July 1969

2.3 Naval Ship Combat System. A naval ship combat system is a certain system complex made up of those surveillance and sensor subsystems, command and communications subsystems, weapons control subsystems, and weapons material subsystems, which is required to perform the assigned target destruction missions of the ship.

2.4 System Interfaces. The system interfaces for which standard terms are provided in this glossary are identified in Figure 1.

3. Building the glossary.

3.1 Organizing the interface functions. An analysis of the nature of the electronic and weapons control interface functions used in naval ship combat systems was necessarily undertaken prior to starting detailed work on this glossary. The analytical process is described briefly below.

3.1.1 The interface functions, upon analysis, were determined to belong in the following major categories:

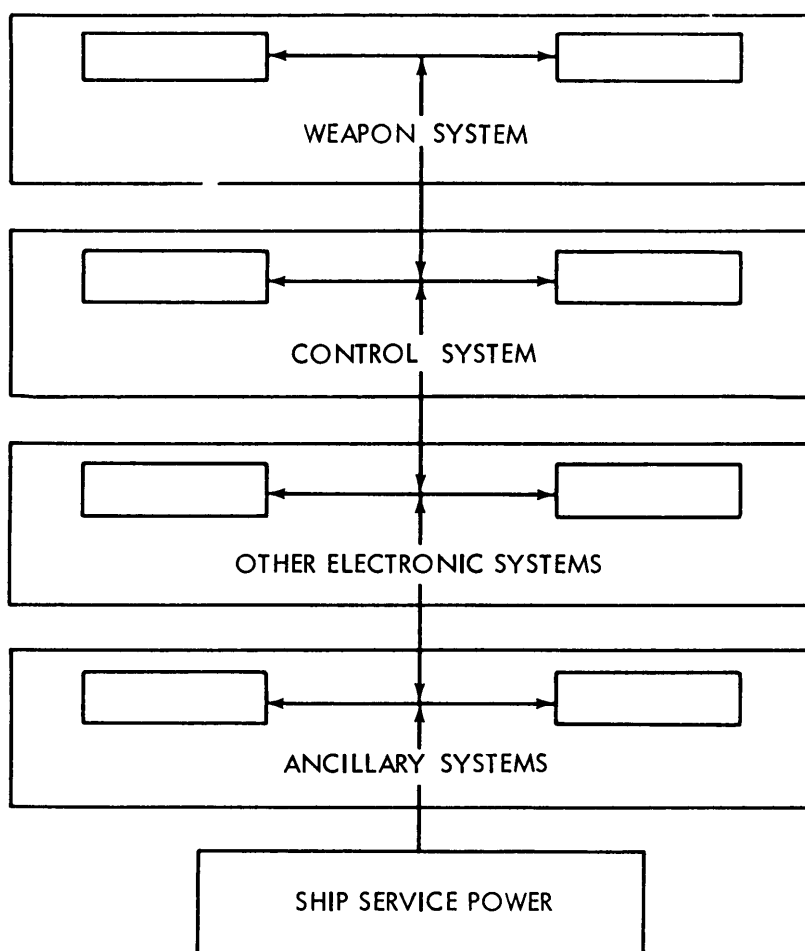
- (a) Weapons control data
- (b) Equipments configuration
- (c) Weapon considerations
- (d) Ancillary data. inputs
- (e) Power (energy) inputs

3.1.2 The interface functions which belong in the major categories listed above were also found to possess definite functional characteristics, as well as an amenability to logical structuring into "family" groupings. A detailed explanation of the "families" and the hierarchical structuring of terms is given in paragraph 3.3. Using the category listing shown above in 3.1.-1, the functional family substructure developed as follows:

- | | |
|------------------------------|--|
| (a) Weapons control data | -Range data.
-Bearing data
-Elevation data |
| (b) Equipments configuration | -Mode
-Designation
-Equipment situations |
| (c) Weapon considerations | -Weapon selection
-Weapon orders
-Weapon repeatback indications |
| (d) Ancillary data inputs | - Intelligence
(radio, IFF, etc.)
-Vehicle information
(motion, etc.) |
| (e) Power (energy) inputs | -Ship service
-Reference |

SYSTEM INTERFACES

For Which Standard Interface Function Terms Are Provided



NOTE: ARROW HEADED LINES BETWEEN BOXES REPRESENT SYSTEM INTERFACES. ARROWS SHOW THE DIRECTION OF INTERFACE FUNCTION FLOW.

FIGURE 1

MIL-STD-1343(NAVY)
1 July 1969

3.1.3 As can be seen from Figure 2- Basic Weapons Control System - the factors of:

- (a) Acquisition and tracking
- (b) Computation and prediction, and
- (c) Weapons positioning

are the basic elements in the weapons control problem. The interfaces involved, which are described in this Standard, are also delineated in Figure 2.

3.1.4 This analysis permitted a logical structuring of the interface function terms, pointed the way to the type of glossary described in the following paragraphs, and resulted in a flexible system which will take care of any interface functional situation which is foreseen. It provides the ability to locate the proper specific functional term and to add to it, when required, certain general or specific term modifiers to complete the required definitive meaning for the particular application in the particular ship. The terms and term modifiers do not provide the total data needed for interface documentation. The details of the signal parameters, the units involved, etc., must be supplied by the technical personnel preparing the interface documentation.

3.2 The glossary format. The working text is presented in paragraph 5. A general description is given in the following subparagraphs. Reference is made, where appropriate, to the detailed description of the conventions and guidelines used, contained in the pertinent subparagraphs.

3.2.1 Part I -- Terms.

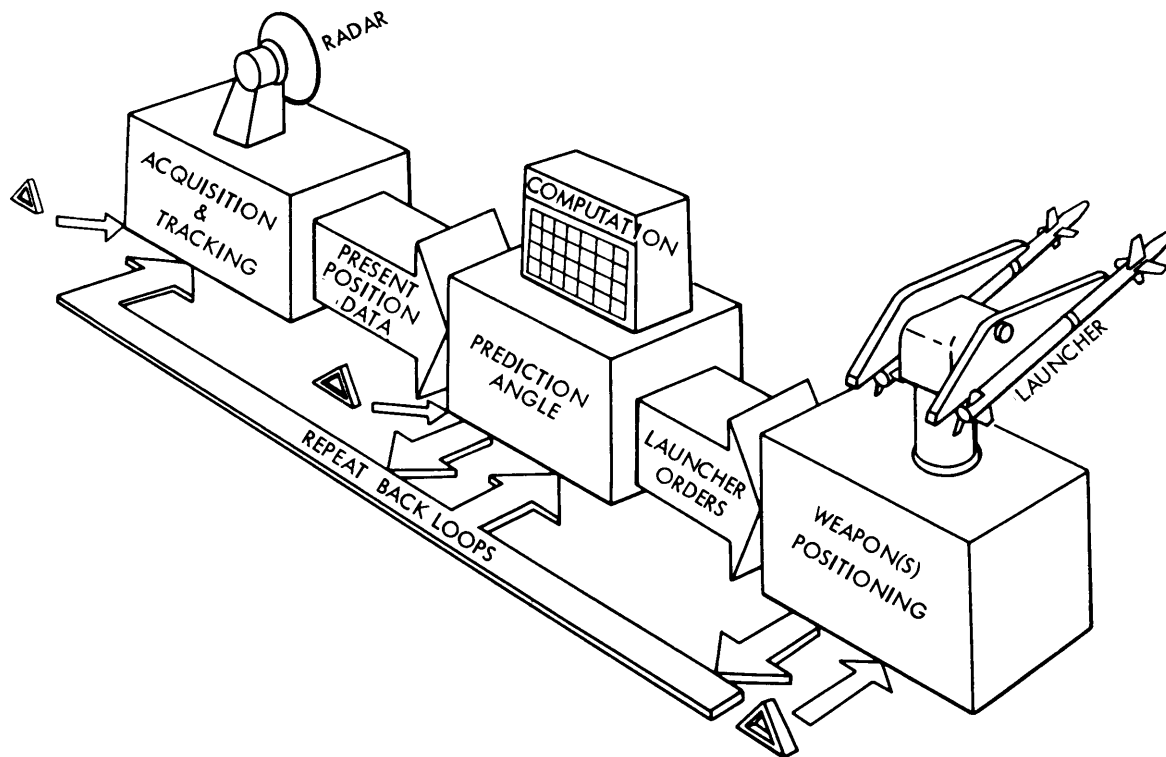
3.2.1.1 The terms appear in alphabetical order, letter-by-letter (see 3. 3. 3). They have been structured in such a way that alphabetization arranges related terms conveniently together.

3.2.1.2 Certain terms are presented as numbers of a hierarchy which includes those term modifiers most applicable to that hierarchy (see 3.3.1.2). 'This provides the following:

- (a) The logic framework aids in the listing of all the useful terms in a given subject area.
- (b) It permits the selection of standard terms of several levels of generality.
- (c) It provides an economical and convenient listing.

MIL-STD-1343(NAVY)
1 July 1969

BASIC WEAPONS CONTROL SYSTEM



THE INTERFACES THROUGH WHICH THE WEAPONS CONTROL FUNCTIONS FLOW ARE:

1. BETWEEN THE COMPONENTS - TRACKING, COMPUTATION AND POSITIONING
2. BETWEEN UNITS OF THE ABOVE COMPONENTS
3. FROM ANCILLARY EQUIPMENT TO THE COMPONENTS OR UNITS

 - ANCILLARY INPUTS (POWER, GYRO, ETC.)

FIGURE 2

MIL-STD-1343(NAVY)

1 July 1969

3.2.1.3 Certain other terms are presented as members of small families (see 3.3.1.3). These are really members of various hierarchies, but the number of terms comprising the individual hierarchies is small enough to be easily manageable, so the flexibility and compression of the formal hierarchy approach is not required. Again, term modifiers provide for more definitive descriptions and flexibility for the particular usage in interface documentation.

3.2.1.4 The remainder of the terms are discrete terms, given with their individual, unique descriptions (see 3.3.1.4). Here, again, term modifiers should be used to provide a more definitive description when required for the particular usage in interface documentation.

3.2.1.5 Each term is followed by its unique description which is given in dictionary style.

3.2.1.6 Where appropriate, cross references follow the glossary listings (see 3.3.3).

3.2.2 Part II -- Term Modifiers.

3.2.2.1 Term modifiers are listed alphabetically in Part II with their definitions.

3.2.2.2 Term modifiers are used to amplify or further refine the description of a term selected from Part I. As given in Part II, the term modifiers, although properly defined, individually stand alone out of context, but when added to a term and thereby placed in context, any possible ambiguity is removed.

3.2.2.3 Any term modifier listed is intended for use with any term where appropriate. The list includes all the term modifiers contained in Part I in association with the several hierarchies of terms, and additional term modifiers which have been selected as having general applicability (see 3.3.2). All term modifiers are also listed in Parts I and III for convenient reference.

3.2.3 Part III -- Key Word Index.

3.2.3.1 The key word index provides for ready identification and location of any term by searching the index with any significant key word contained in the term (see 3.3.6).

3.2.4 Part IV -- Code Index.

3.2.4.1 Each term and each term modifier has been assigned a code number for use in interface documentation when required. This provides for the quick identification of any term or term modifier when the code number is known (see 3.3.7).

MIL-STD-1343(NAVY)
1 July 1969

3.3 Conventions.

3.3.1 Construction of terms. Terms considered for listing in the glossary, upon analysis, were found to normally contain three term elements. These were:

<u>Element</u>	<u>Sequence</u>
(a) What is it?	Level 1
(b) What type is it?	Level 2
(c) What is its source?	Level 3

Some terms, as given, do not have all three elements, but upon careful thought it will be seen that the missing elements are implied, but due to common usage, are normally omitted. Since the only reasonable method of entering any glossary is via the alphabet, terms have been structured with this in mind.

3.3.1.1 General. The terms are usually composed of the three term elements listed above, and are presented in sequential order, with 'the elements separated by commas, thereby providing easy alphabetical search. Details of the construction of the terms, as well as the conventions which materially assist in the understanding and effective use of the glossary, are given below.

3.3.1.2 Hierarchies of terms. Where appropriate, the terms are organized into hierarchies in order to exploit the advantages described in 3.2.1.2 preceding. The hierarchy structure appears in Part I before any term of that hierarchy. An example is shown in Figure 3, a fold-out at the end of paragraph 4. Note that Level 1 of the hierarchy appears without a symbol. Level 2 is preceded by one dot, Level 3 by two dots, and Level 4 (labeled TERM MODIFIERS) by three dots. Figure 3 also includes an explanatory chart of this notation. . The hierarchy structure permits the ready generation of terms at four levels. For example, from Figure 3:

Level 1:	RANGE (TARGET)
Level 2:	RANGE (TARGET), LOS
Level 3:	RANGE (TARGET), LOS, OBSERVED
Level 4:	RANGE (TARGET), LOS, OBSERVED, RELIABLE

Note that only one term element is selected at each of levels 1, 2, and 3. More than one term modifier (level 4) may be selected as explained in 3.3.2, following.

MIL-STD-1343(NAVY)
1 July 1969

Note also that all of the term elements of the lower levels may not be applicable to all of the term elements of a higher level. For example, from Figure 3.

RANGE (TARGET), APPARENT, COMPUTED

The underlined term element is not applicable, and therefore, such a term does not appear in the glossary. Following the hierarchy structure, Part I lists and defines the useful level 3 terms. Any superior level term contained in the framework of the level 3 description is also defined therein. For example, the listed level 3 terms -- RANGE (TARGET), HORIZONTAL, COMPUTED and RANGE (TARGET), HORIZONTAL, CORRECTED contain the level 2 term RANGE (TARGET), HORIZONTAL. The language of the glossary provides a ready definition of the level 2 term:

“The projection of RANGE (TARGET), LOS in the horizontal plane by a vertical plane through the LOS.”

3.3.1.3 Small families. Where the total number of terms which form a family are relatively small and more easily managed, it is not necessary to utilize the hierarchy approach. These terms are therefore listed in their entirety, and term modifiers may be added when required as explained in 3.2.1.3 above. Examples of small families appearing in the glossary are:

COOLANT (STATUS)

MOUNT (GUN) (+)

RADAR (+)

3.3.1.4 Discrete terms. The remainder of the terms are of a type which do not lend themselves to ready grouping within families. However, these terms are also structured by term elements when appropriate to permit their proper incorporation into the glossary format, and term modifiers may be added when required as explained in 3.2.1.4 above. Some examples are:

DESTRUCT (MISSILE), ORDER

FIRING CUTOUT, LIMITS, MOUNT (+)

INVERSE GAIN ORDER

PHASING ORDER, RADAR (+)

TEMPERATURE, AIR

MIL-STD-1343(NAVY)
1 July 1969

3.3.2 Term modifiers (see 3.2.2).

3.3.2.1 All terms listed in Part I are subject to such amplification as the user may require, through the employment of one or more term modifiers.

3.3.2.2 In the case of hierarchy terms, term modifiers may be selected from the level 4 term modifiers specifically applicable to the hierarchy, or from other term modifiers listed in Part II, or both. For example, from Figure 3:

RANGE (TARGET), LOS, OBSERVED, RELIABLE
(using one level 4 term modifier)

RANGE (TARGET). LOS. OBSERVED. ESTIMATED
(using one of the other level 4 term modifiers from Part II)

RANGE (TARGET), LOS, OBSERVED, RELIABLE , RADAR (+)
(using two level 4 term modifiers)

3.3.2.3 In the case of terms which are not members of a hierarchy, term modifiers may be selected as applicable from Part II. For example:

FIRING CUTOFF, MOUNT #2
(using the term modifier MOUNT (+)
see also 3.3. 4)

3.3.3 Cross References. Only two types of cross references are employed. They are "See" references and "Use" references. These are explained in the following subparagraphs.

3.3.3.1 "See" references are used to direct the user to another entry which contains information in clarification of the entry bearing the cross reference. For example, in Part I, under:

RANGE, (TARGET), APPARENT, OBSERVED
find the cross reference:

see RANGE (TARGET), (HIERARCHY)

This informs the user that RANGE (TARGET), APPARENT, OBSERVED is a member of a hierarchy which illustrates its structure. See also, under:

GATE
find the cross reference:

see Part II

MIL-STD-1343(NAVY)
1 July 1969

This informs the user that GATE is a term modifier and is defined in Part II.

3.3.3.2 “Use” references are used to direct the user from a less desirable, but more or less commonly used term, to the correct standard term. For example, in Part I, under:

OPEN DOOR
find the cross reference:

Use DOOR, CONDITION

This directs the user not to employ the non-standard term OPEN DOOR, but to use instead:

DOOR , CONDITION

3.3.3.3 Double cross references are employed under certain circumstances to facilitate using the glossary, as for example:

GENERATED

Use COMPUTED -- See Part II.

3.3.4 Use of the symbol (+). This symbol is used to inform the user that the term element preceding the symbol should be amplified, where appropriate, to provide additional descriptive information. For example, in Figure 3 the level 4 term modifier RADAR (+) is involved, An appropriate use of this term modifier might be:

RANGE (TARGET), LOS, OBSERVED, SURFACE SEARCH
RADAR #2

3.3.5 Special provisions to aid alphabetization. In the listing of terms, certain term elements are enclosed in parentheses. This is a device to control the alphabetization of the terms, or to ignore a word in indexing. For example, in Figure 3, find:

RANGE (TARGET), (HIERARCHY)

This indicates that the term elements enclosed in parentheses are ignored in the alphabetization. This is necessary in this instance, to permit RANGE (TARGET), (HIERARCHY) to appear before the hierarchy terms, permitting logical arrangement. Other examples are:

MIL-STD-1343(NAVY)
1 July 1969

TIME, (OF) FLIGHT, (TO) INTERCEPT

BEARING (EQUIPMENT)

BEARING (TARGET)

where the use is primarily to suppress words not useful in indexing. When such terms are entered into specific interface documentation, it is necessary to retain the parentheses to facilitate locating the terms in the glossary, and to preserve the complete sense of the terms. In certain cases, words are hyphenated or closed up so they can be handled as a single word. Examples are:

OWNSHIP

SHIP-SERVICE

3.3.6 Key Word Index (See 3.2. 3)

3.3.6.1 The Key Word Index, Part III, provides ready alphabetical entry into Part I using any significant key word. This is a key-word-out-of-context (KWOC) type of listing, in that the key words appear at the left margin in alphabetical order, followed on the right by the complete term containing the key word, exactly as it appears in Part I. For example, the following entries appear in Part III:

LOS	RANGE (TARGET), LOS, OBSERVED
OBSERVED	RANGE (TARGET), LOS, OBSERVED
RANGE (TARGET)	RANGE (TARGET) , LOS, OBSERVED

In some very long terms, the term is cut off after 50 characters, but this has no effect on the ability to go directly to Part I and readily locate the term. "ORDER" and "STATUS" do not appear in the Key Word Index. Although widely used in the glossary terms, they have been deliberately suppressed by the computer program, since they are not valuable as search words.

3.3.7 Code Index. (See 3.2. 4)

3.3.7.1 The Code Index, Part IV, provides ready numeric identification of the designated term or term modifier when the code number is known. This code has been structured to present the maximum practical useability (i.e., mnemonics). In its design it:

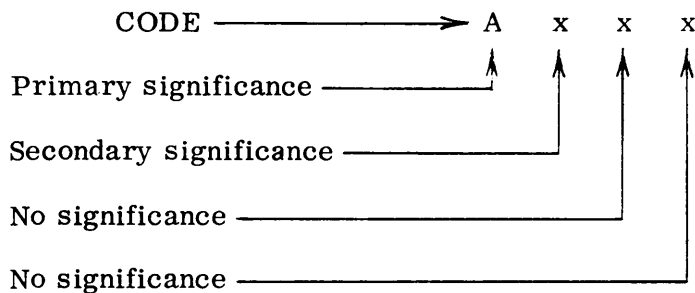
- (a) Recognizes and incorporates as much of the firecontrol symbology of OP-1700 as is practical and reasonable,

MIL-STD-1343(NAVY)
1 July 1969

- (b) Provides considerable identification of the basic functional meaning of most other terms for which no formal coding or symbology has existed, and
- (c) Is completely compatible with easy computer recall or other search or retrieval methods.

The construction of the code, and its logic, are explained below and in Table I.

3.3.7.2 A study of the glossary, including the natural family grouping of many terms involved, the mechanical problems to be encountered, as well as the utilization of the coding, led to a four character code consisting of an upper case letter containing the basic significance, followed by three digits, the first of which contains a certain amount of secondary significance. The second and third digits contain no information of visual significance, but are necessary for the proper identity and handling of the code. The three digits alone contain all the intelligence necessary for retrieval or identification by personnel or computer. As far as term modifiers are concerned, they have no formal structure or family pattern, so there is no need for visual significance. A two digit numeric non-significant code is used. The code structure is:



The code significance is shown in Table I.

The Code Index is divided into two parts. Part IVa is a listing of the four character codes for the terms, arranged numerically in the order-of the three digits. Part IVb is a numerical listing of the two character codes for the term modifiers. Entry is from the left margin, as shown below:

B303 BEARING RATE, LOS, OBSERVED

05 ALTITUDE

4. Guidelines -- How to use the glossary.

4.1 Applications. In its designed application to interface documentation, the glossary is use in three ways.

MIL-STD-1343(NAVY)
1 July 1969CODING STRUCTURE TABLE

<u>LETTER</u>	<u>SIGNIFICANCE</u>	<u>FIRST DIGIT</u>	<u>SIGNIFICANCE</u>	<u>SECOND & THIRD DIGIT</u>	<u>SIGNIFICANCE</u>
B	BEARING	0	ELECTRONIC	0	<u>NONE</u>
C	CODE	1	TARGET	↓	↓
E	ELEVATION	2	EQUIPMENT	9	NONE
F	RADIO	3	RATE		
G	RADAR	4	WEAPON		
H	SONAR	5	ORDER		
I	INTELLIGENCE	6	STATUS		
J	JAMMING	7	COMPUTED		
K	MOUNT	8	GENERAL USE		
M	MOTION	9	GENERAL USE		
N	POSITION				
O	DESIGNATION or MODE				
P	POWER				
Q	MISSILE				
R	RANGE				
T	TIME				
U	TORPEDO or DEPTH CHARGE				
W	WIND				
X	GENERAL USE - (1st digit has significance)				
Y	GENERAL USE - (no digit has significance)				

NOTE: Whenever more than one letter or first digit is applicable, the one or primary significance is used.

TABLE I

MIL-STD-1343(NAVY)
1 July 1969

- (a) To determine the meaning of a term already documented, or
- (b) To determine the correct term, knowing the description of the interface function, or
- (c) To identify a term by its code number.

In any case, a good understanding of the glossary format and of the conventions is required.

4.2 To determine the meaning of a term already documented, enter Part I alphabetically with the term in question. This will lead directly to the correct definition of the term, less its term modifiers, if any. The term modifiers may then be located in Part II to complete the definition.

4.3 To determine the correct term, knowing the description of an interface function, assume a trial term from the known description. Search for the trial in the manner described in 4.2. This may lead to a listed term which meets at least the principal elements of the known description. The remaining elements of the description, if any, may then be included by the addition of one or more term modifiers. These will be located by reference to the hierarchy of the trial term if applicable, or to Part II. If this is not successful, then search Part III -- The Key Word Index -- with the key words of the trial term.

4.3.1 Some examples of the procedures set forth above follow. It must be remembered that the first and fundamental step is to determine the description of the function rather than rely on colloquialisms.

4.3.2 Take the function "RADAR PHASING ORDER", also sometimes called "GUIDANCE PHASING ORDER", and enter Part I to locate the term. The term will not be found since it is actually shown as "PHASING ORDER, RADAR (+)" which not only defines (in the text) the actual meaning, but also suggests identifying the particular RADAR involved. So try the Key Work Index, using the key words. There is found:

PHASING ORDER	PHASING ORDER, RADAR (+) and
RADAR (+)	PHASING ORDER, RADAR (+)

This leads directly to the proper term and its description in Part I. Note that "ORDER" is not listed in the index, although it is a widely used term element, but is not valuable as a search word.

4.3.3 Also consider the function: "The logic signal alerting personnel that a torpedo is about to be fired." Direct entry to Part I will yield TORPEDO (+),

MIL-STD-1343(NAVY)
1 July 1969

READY, (TO) FIRE, but if this method of entry did not occur to the user, the index shows:

(TO) FIRE	TORPEDO (+), READY, (TO) FIRE or
READY	TORPEDO (+), READY, (TO) FIRE or
TORPEDO (+)	TORPEDO (+) , READY, (TO) FIRE

Although this has fully identified the particular torpedo which is ready to fire, the warning to personnel is missing, and obviously a term modifier is needed. Re-course to Part II will lead to the term modifier "ALARM", thus generating the complete definitive description.

4.3.4 Or consider the function -- "The indication to NTDS that the SLQ-12 is in standby." In this case, direct entry to Part I will be of no use, until the function is analyzed, and it should be recognized that it is an electronic countermeasures action of a jamming type. With this in mind, use of these key words (from Part III) leads to:

ECM (+)	JAMMING, ECM (+), ALERT or
JAMMING	JAMMING, ECM (+), ALERT

which is the proper term. Note that ECM (+) should be replaced by SLQ-12 in the documentation.

4.3.5 In some cases a term modifier may be required to impose a negative sense to the term. For example: "AIDED TRACK NOT AVAILABLE". This function is defined as "The logic signal originating from Unit A to Unit B indicating that aided tracking information is not available", and, in addition, must specify the equipment (either RADAR or SONAR) for which the aid was desired. Assuming a RADAR in this case, the Key Word Index leads to:

RADAR (+)	RADAR (+), STATUS, TRACK (AIDED) or
TRACK (AIDED)	RADAR (+), STATUS, TRACK (AIDED)

Reference to Part II supplies the term modifier "NOT AVAILABLE", thus completing the term. Note that "STATUS" is not listed in the index, although it is a widely used term element, but is not valuable as a search word.

4.3.6 The above examples, coupled with study of the glossary, will lead to easy and effective use.

MIL-STD-1343(NAVY)
1 July 1969

4.4 To identify a term or term modifier by its code number. enter Part IVa with the three digits of the code number (for a term), or enter Part IVb with the two digits of the code number (for a term modifier), which will immediately identify the term or term modifier.

DEPICTING THE HIERARCHY STRUCTURE

MIL-STD-1343(NAVY)
1 July 1969

NOTATION USED IN PART I

RANGE (TARGET), (HIERARCHY)

LEVEL	
1	RANGE (TARGET)
2	<ul style="list-style-type: none"> • APPARENT • EAST-WEST (E-W) • HORIZONTAL • LINE-OF-SIGHT (LOS) • NORTH-SOUTH (N-S)
3	<ul style="list-style-type: none"> •• COMPUTED •• CORRECTED •• OBSERVED
	<p>TERM MODIFIERS</p> <hr/> <ul style="list-style-type: none"> ••• ASSISTANCE ••• CALIBRATION ••• COMPENSATION ••• ERROR ••• GATE ••• HOLD ••• MARK- ••• OPTICAL (+) ••• ORDER ••• RADAR (+) ••• REFERENCE ••• RELIABLE ••• SELECTED ••• SONAR (+) ••• TEST ••• TRIGGER ••• UNRELIABLE
4	

EXPLANATORY CHART

RANGE (TARGET), (HIERARCHY)

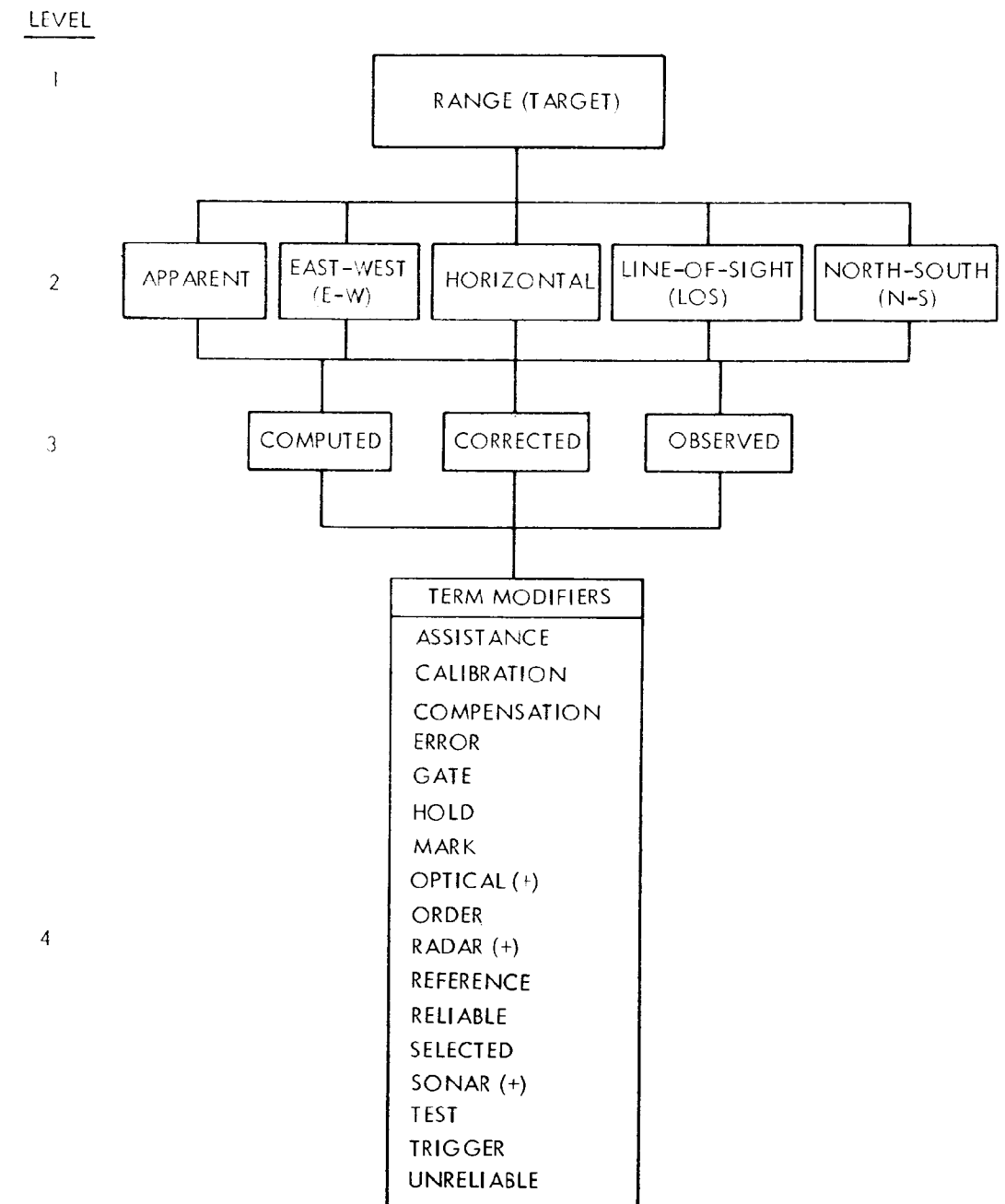


FIGURE 3

MIL-STD-1343(NAVY)
1 July 1969

5

GLOSSARY

5.1

PART I

Interface Functions

MIL-STD-1343(NAVY)
1 JULY 1969

GLOSSARY
of
ECLECTRONIC & WEAPONS CONTROL
INTERFACE FUNCTIONS
(Naval Ship Combat Systems)

A

ABORT

Use DESTRUCT.

ACCEPT

See Part II.

ACTIVE

See Part II.

AIM POINT

Use CAPTURE. For computed position of capture point use functional terms such as RANGE (TARGET), BEARING (TARGET), ELEVATION (TARGET).

AIR READY

Use BREAK, TRACK.

ALARM

See Part II.

ALERT

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

ALTITUDE

See Part II.

AMMUNITION (GUN) (+), AVAILABLE

X600

The indication of the inventory status of the gun ammunition which is available for use.

AMMUNITION (GUM) (+), SELECTED

Y800

The particular gun ammunition has been selected for possible use.

ANTI-AIRCRAFT

See Part II.

APPARENT

See Part II.

APPROXIMATE

See Part II.

ARCS, (OF) FIRE

Use FIRING CUTOUT, LIMITS, MOUNT (+).

ARROW CONTROL, FCS (+), TARGET (+)

0100

A marker placed on the PPI scope on a selected target to direct attention to that target.

Use suitable functional terms for missile, torpedo or depth charge in connection with weapons control data supplied to the ASROC prior to and at launching (fire).

ASSIGN

Use DESIGNATE.

ASSISTANCE

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969**ATTITUDE, (HIERARCHY)**

ATTITUDE
 . HEADING
 . PITCH
 . ROLL
 . YAW
 . . MISSILE
 . . OWNERSHIP
 . . . EXCITATION
 . . . SELECTED
 . . . SIMULATED
 . . . ZERO

ATTITUDE, HEADING, OWNERSHIP **Y804**

The angle between own ship centerline and the north-south line, positive angles measured clockwise from north. See ATTITUDE, (HIERARCHY).

ATTITUDE, PITCH, MISSILE **Q801**

The angle between missile axis and the missile vector reference frame horizontal plane. Positive angles measured upward from the reference frame horizontal plane when viewed toward the missile bow. See ATTITUDE, (HIERARCHY).

ATTITUDE, PITCH, OWNERSHIP **Y802**

The angle between own ship centerline and the horizontal plane. Positive angles measured upward from horizontal plane when viewed toward own ship bow. See ATTITUDE, (HIERARCHY).

ATTITUDE, ROLL, MISSILE **Q803**

The angle between the vertical plane through missile axis and the normal plane through the intersection of the vertical plane through missile axis and the missile deck plane measured about the axis which is the intersection of the vertical plane through missile axis and the missile deck plane. Positive direction is clockwise when viewed inward from missile bow. (i.e. the right wing is upward.) See ATTITUDE, (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

ATTITUDE, ROLL, OWNERSHIP **Y805**

The angle between the vertical plane through own ship centerline and the normal plane through the intersection of the vertical plane through own ship centerline and the deck plane measured about the axis which is the intersection of the vertical plane through own ship centerline and the deck plane. Positive direction is clockwise when viewed inward from own ship bow. See ATTITUDE, (HIERARCHY).

ATTITUDEB, YAW MISSILE **Q806**

The angle between missile axis and missile course vector measured in the missile vector reference frame horizontal plane. Positive angles clockwise when viewed from above. See ATTITUDE, (HIERARCHY).

ATTITUDE, YAW, OWNERSHIP **Y807**

The angle between own ship centerline and own ship course vector measured in the horizontal plane. Positive angles clockwise when viewed from above. See ATTITUDE, (HIERARCHY).

AUTOMATIC

See Part II.

AVAILABLE

See Part II.

AZIMUTH

Use BEARING (+) - See part II.

B

BATTLE SHORT (+), INDICATION **X601**

The indication that the particular battle short circuit has been activated.

BATTLE SHORT (+), ORDER **X500**

The order to activate the particular battle short circuit.

MIL-STD-1343(NAVY)
1 JULY 1969**BEACON, MISSILE**

Use Terms from INTELLIGENCE, RADIO, TELEMETRY when used in connection with an exercise head. When used for signal enhancement, use Terms from RANGE (TARGET), BEARING (TARGET) or ELEVATION (TARGET) as appropriate.

BEARING (+)

See Part II.

BEARING (EQUIPMENT), (HEIRARCHY)

	BEARING (EQUIPMENT)	
	. RELATIVE	
	. TRUE	
	. . CORRECTED	
	. . ERROR	
	. . ORDER	
	. . STABILIZED	
	. . UNCORRECTED	
. . . ECM (+)		. . . OPTICAL (+)
. . . DIRECTOR (+)		. . . RADAR (+)
. . . LAUNCHER (+)		. . . SONAR (+)
. . . MOUNT (+)		. . . RESET

BEARING (TARGET), (HIERARCHY)

BEARING (TARGET)
. RELATIVE
. TRUE
. . APPARENT
. . COMPUTED
. . OBSERVED
. . STABILIZED
. . . CORRECTED
. . . ERROR
. . . RELIABLE
. . . UNRELIABLE

BEARING, COSRO, REFERENCE**B700**

The computed bearing reference signal to position the conical scan beam of the guidance RADAR when operating in the receive only mode.

MIL-STD-1343(NAVY)
1 JULY 1969

BEARING RATE, (HEIRARCHY)

BEARING RATE
 . APPARENT
 . . LOS
 . . . COMPUTED
 . . . CORRECTED
 . . . OBSERVED
 ERROR
 READY
 RELIABLE
 UNRELIABLE

BEARING RATE, APPARENT, OBSERVED **B300**

The rate of change in BEARING (TARGET), APPARENT, expressed in angular measure per unit of time. See BEARING RATE, (HIERARCHY).

BEARING RATE, LOS, COMPUTED **B301**

The rate of change in BEARING (TARGET), LOS, COMPUTED expressed in angular measure per unit of time. See BEARING RATE, (HIERARCHY).

BEARING RATE, LOS, CORRECTED **B302**

The rate of change in BEARING (TARGET), LOS, CORRECTED expressed in angular measure per unit of time. See BEARING RATE, (HIERARCHY).

BEARING RATE, LOS, OBSERVED **B303**

The rate of change in BEARING (TARGET), LOS, expressed in angular measure per unit of time. See BEARING RATE, (HIERARCHY).

BEARING (TARGET), RELATIVE, APPARENT **B101**

The angle between the vertical plane through own ship centerline, and the vertical plane through a submerged target position as detected by sonar. Positive angles measured clockwise from own ship centerline. See BEARING (TARGET), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969**BEARING (TARGET), RELATIVE, COMPUTED** **B102**

The angle between the vertical plane through own ship centerline, and the vertical plane through the line of sight as computed by a firecontrol device. Positive angles measured clockwise from own ship centerline. See BEARING (TARGET), (HIERARCHY).

BEARING (EQUIPMENT), RELATIVE, CORRECTED **B200**

The angle between the vertical plane through own ship centerline and the vertical plane through the equipment's pointing line, measured in the horizontal plane, corrected for various conditions which contribute to error. Positive angles measured clockwise from own ship centerline. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (EQUIPMENT), RELATIVE, ERROR **B203**

A signal indicating the error in the transmitted BEARING (EQUIPMENT), RELATIVE (CORRECTED, STABILIZED or UNCORRECTED) .See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (TARGET), RELATIVE, OBSERVED **B103**

The angle between the vertical plane through own ship centerline and the vertical plane through the line of sight. positive angles measured clockwise from own ship centerline. See BEARING (TARGET), (HIERARCHY).

BEARING (EQUIPMENT), RELATIVE, ORDER **B204**

A computed, repeatback, or operator's signal used to bring the value of BEARING (EQUIPMENT), RELATIVE, (CORRECTED, STABILIZED or UNCORRECTED) into correlation with itself. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (TARGET), RELATIVE, STABILIZED **B104**

The angle between the vertical plane through own ship centerline, and the vertical plane through the line of sight, corrected for ship motion factors, such as roll, pitch, or yaw. measured clockwise from own ship centerline. See BEARING (TARGET), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

BEARING (EQUIPMENT), RELATIVE, STABILIZED **B201**

The angle between the vertical plane through own ship centerline and the vertical plane through the equipment's pointing line, measured in the horizontal plane when the pointing line is stabilized to compensate for roll, pitch or yaw. Positive angles measured clockwise from own ship centerline. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (EQUIPMENT), RELATIVE, UNCORRECTED **B202**

(NOTE: Commonly called TRAIN). The angle between the vertical plane through own ship centerline and the normal plane through the equipment's pointing line, measured in the deck plane. Positive angles measured clockwise from own ship centerline. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (TARGET), TRUE, APPARENT **B105**

The angle between the north-south vertical plane, and the vertical plane through a submerged target position as detected by sonar. Positive angles measured clockwise from north. See BEARING (TARGET), (HIERARCHY).

BEARING (TARGET), TRUE, COMPUTED **B106**

The angle between the north-south vertical plane, and the vertical plane through the line of sight as computed by a firecontrol device. Positive angles measured clockwise from North. See BEARING (TARGET), (Hierarchy).

BEARING (EQUIPMENT), TRUE, CORRECTED **B205**

The angle between the north-south vertical plane and the vertical plane through the equipment's pointing line, measured in the horizontal plane, corrected for various conditions which contribute to error. Positive angles measured clockwise from north. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (EQUIPMENT), TRUE, ERROR **B206**

A signal indicating the error in the transmitted BEARING (EQUIPMENT), TRUE (CORRECTED, STABILIZED or UNCORRECTED). See BEARING (EQUIPMENT), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969**BEARING (TARGET), TRUE, OBSERVED** **B107**

The angle between the vertical plane through own ship centerline and the vertical plane through the line of sight. Positive angles measured clockwise from north. See BEARING (TARGET), (HIERARCHY).

BEARING (EQUIPMENT), TRUE, ORDER **B207**

A computed, repeatback, or operator's signal used to bring the value of BEARING (EQUIPMENT), TRUE, (CORRECTED, STABILIZED or UNCORRECTED) into correlation with itself. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (TARGET), TRUE, STABILIZED **B108**

The angle between the north-south vertical plane, and the vertical plane through the line of sight, corrected for ship motion factors, such as roll, pitch or yaw. Positive angles measured clockwise from North. See BEARING (TARGET), (HIERARCHY).

BEARING (EQUIPMENT), TRUE, STABILIZED **B208**

The angle between the north-south vertical plane and the vertical plane through the equipment's pointing line, measured in the horizontal plane when the pointing line is stabilized to compensate for roll, pitch, or yaw. See BEARING (EQUIPMENT), (HIERARCHY).

BEARING (EQUIPMENT), TRUE, UNCORRECTED

(NOTE: Commonly called TRAIN). The angle between the north-south vertical plane and the normal plane through the equipment pointing line, measured in the deck plane. Positive angles measured clockwise from north. See BEARING (EQUIPMENT), (HIERARCHY).

BLANKING

See Part II.

BLIND ZONE, LAUNCHER (+), NARROW **K210**

The signal indicating that the launcher is in a narrow blind zone, where the firing mechanism is inactivated to prevent firing into a physical interference, such as super-structure, rigging, etc.

MIL-STD-1343(NAVY)
1 JULY 1969

BLIND ZONE, LAUNCHER (+), WIDE **K211**

The signal indicating that the launcher is in a wide blind zone, where the firing mechanism is inactivated to prevent firing into a physical interference, such as superstructure, rigging, etc.

BLIND ZONE, RADAR (+), NARROW **G212**

The signal indicating that the RADAR is pointing into a narrow zone of interference, such as superstructure, rigging, etc., and that the RADAR emission is suppressed to prevent injury to personnel, equipment, etc.

BLIND ZONE, RADAR (+), WIDE **G213**

The signal indicating that the RADAR is pointing into a wide zone of interference, such as superstructure, etc., and that the RADAR emission is suppressed to prevent injury to personnel, equipment, etc.

BOOSTER (MISSILE), SEPARATION, INDICATION **Q808**

A signal indicating the booster has separated from the missile in flight.

BOOSTER SPLASH, COMPUTED, BEARING (TRUE) **B109**

The bearing in degrees measured clockwise from north in the horizontal plane from the missile firing point to the point where the booster enters the water, as computed by the weapons control system.

BOOSTER SPLASH, COMPUTED, E-W **R110**

The E-W component of the distance in yards from the missile firing point to the point where the booster enters the water, as computed by the weapons control system.

BOOSTER SPLASH, COMPUTED, N-S **R111**

The N-S component of the distance in yards from the missile firing point to the point where the booster enters the water, as computed by the weapons control system.

BOOSTER SPLASH, COMPUTED, RANGE **R112**

The distance in yards from the missile firing point to the point where the booster enters the water, as computed by the weapons control system.

MIL-STD-1343(NAVY)
1 JULY1969

BREAK, TRACK (+)

X501

A signal to open the tracking circuit allowing the director to be placed in Air Ready.

BUSY, OWN-CONTROL

See Part II.

C

See Part II.

CAPTURE, MISSILE (+), ACQUISITION

Q809

The indication that the particular missile has reached the capture point and is responding correctly to guidance commands.

CASUALTY

See Part II.

CAUTION

Use WARNING - See Part II.

CLOCK TIME

T830

A signal indicating the time shown on the official ships clock set to the time zone currently in use.

CLOSED DOOR

Use DOOR, CONDITION.

COAST, RADAR (+), ALERT

G602

A signal to indicate that the target video has been lost and the tracking channel is coasting on the target's last known rate.

MIL-STD-1343(NAVY)
1 JULY 1969

COAST, RADAR (+), ORDER **G502**

A signal to the RADAR to disregard target tracking ethos and to move its beam in accordance with the current computed tracking data to avoid locking onto a wrong target which is about to enter its acquisition area.

CODE (+) (GUIDANCE), ORDER, MISSILE (+) **C400**

A signal to the particular missile directing it to set up a prescribed code. See CODE (+) (GUIDANCE), (HIERARCHY).

CODE (+) (GUIDANCE), ORDER, MUDDS (+) **C214**

A signal to the particular MWDS directing it to set up a prescribed code. See CODE (+) (GUIDANCE), (HIERARCHY).

CODE (+) (GUIDANCE), STATUS, MISSILE (+) **C401**

A signal indicating the current code status of the particular missile. See CODE (+) (GUIDANCE), (HIERARCHY).

CODE (+) (GUIDANCE), STATUS, MUDDS (+) **C215**

A signal indicating the current code status of the particular HUDS. See CODE (+) (GUIDANCE), (HIERARCHY).

CODED TIME, MISSILE (+), DC PULSED **T402**

A DC pulsed electrical timing signal to establish the reference time base of the director, the guidance RADAR, and the BT type missile.

CODED TIME, MISSILE (+), PM **T403**

A frequency modulated electrical timing signal to establish the reference time base of the director, the guidance RADAR, and the HT type missile.

CODED TIME, MISSILE (+), RELAY SIGNAL **T404**

A signal from the relay in the HT type missile indicating that the CODED TIME, MISSILE (+) has been received and that the system is in proper synchronization prior to launching.

COMPENSATION

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

COMPUTED

See Part II.

CONTINUOUS-WAVE ILLUMINATION

Use functional terms such as RADAR (+), ORDER, CWI; RADAR (+), STATUS, CWI, etc. to indicate the operation of the illumination radar when illuminating a tracked target to provide easier missile homing.

COOLANT (STATUS), FLOW **X603**

An indication of the rate of flow of the coolant.

COOLANT (STATUS), LEVEL **X604**

An indication of the level of the coolant.

COOLANT (STATUS), PRESSURE **X605**

An indication of the pressure of the coolant.

COOLANT STATUS, RESISTIVITY **X606**

An indication of the resistivity of the coolant.

COOLANT (STATUS), TEMPERATURE **X607**

An indication of the temperature of the coolant.

CORRECTED

See Part II.

COURSE

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

CROSS LEVEL **Y811**

The angle between the vertical plane through the line of sight, and the normal plane through the intersection of the vertical plane through the line of sight and the horizontal plane, measured about the axis which is the intersection of the vertical plane through the line of sight and the horizontal plane. Positive direction is clockwise when viewed along axis inward from target. (NOTE: Although still used in some older systems, in current practice this quantity is computed from stable vertical and roll and pitch signals). See ATTITUDE, (HIERARCHY).

CURSOR, EQUIPMENT (+), DISPLAY **X000**

A movable marker, under the operator-s control, used to designate bearing, elevation, or range on a display scope.

D

DAMPED

Use SMOOTHED - See Part II.

DDSOT **X812**

The signal initiating the Digital Daily System Operability Test; also the rebound (feedback) signal indicating system operability. For other test orders and test results, use TEST (see Part II).

DEAD TIME **T405**

Time between setting the fuze and firing the shell (for shells) or the time for which computational quantities must be modified when launching is delayed (for missiles).

DECOY, ECM, ALERT **J001**

The signal to the particular ECH equipment to place itself in readiness to use a designated decoy technique.

DECOY, ECM, OEDBR **J002**

The signal to the particular ECU equipment ordering it to start operations using the designated decoy technique.

MIL-STD-1343(NAVY)

1 JULY 1969

DENSITY, AIR**Y813**

The signal indicating the average density of the air mass along the predicted flight path.

DEPRESSION

Use negative ELEVATION.

DEPTH

Use negative ALTITUDE.

DEPTH CHARGE (+), APPROVED**U608**

The particular depth charge, which has been indicated as available, is approved for a certain mission use, and has been through all required preliminary adjustments.

DEPTH CHARGE (+), AVAILABL**U609**

The indication of the inventory status of the depth charges which are available for use.

DEPTH CHARGE (+), FIRE, PERMISSION**U503**

The signal giving permission to fire the particular depth charge at the appropriate time.

DEPTH CHARGE (+), READY, (TO) FIRE**U610**

The indication that the Particular depth charge is in all respects ready to fire.

DEPTH CHARGE (+), SELECTED**U504**

The particular depth charge has been selected for possible use.

DESIGNATE, (HEIBRARC)

	DESIGNATE	
	. EQUIPMENT (+)	
	. PCS (+)	
	. WEAPON (+)	
	. . (TO) EQUIPMENT (+)	
	. . (TO) FCS (+)	
	. . (TO) WEAPON (+)	
. . .	AUTOMATIC	. . .
. . .	IDD	. . .
. . .	LOCAL	. . .
		MANUAL
		ORDER
		REQUEST

MIL-STD-1343(NAVY)
1 JULY 1969

DESIGNATE, EQUIPMENT (+), (TO) PCS (+) 0216

A signal assigning the particular designated equipment to the particular designated firecontrol system. See DESIGNATE, (HIERARCHY).

DESIGNATE, EQUIPMENT (+), (TO) WEAPON (+) 0406

A signal assigning the particular designated equipment to the particular designated weapon. See DESIGNATE, (HIERARCHY).

DESIGNATE, FCS (+), (TO) EQUIPMENT (+) 0217

A signal assigning the particular designated firecontrol system to the particular designated equipment. See DESIGNATE, (HIERARCHY).

DESIGNATE, PCS (+), (TO) PCS (+) 0218

A signal assigning the particular designated firecontrol system to the particular designated firecontrol system. See DESIGNATE, (HIERARCHY).

DESIGNATE, PCS (+), (TO) WEAPON (+) 0407

A signal assigning the particular designated firecontrol system to the particular designated weapon. See DESIGNATE, (HIERARCHY).

DESIGNATE, WEAPON (+), (TO) EQUIPMENT (+) 0408

A signal assigning the particular designated weapon to the Particular designated equipment. See DESIGNATE, (HIERARCHY).

DESIGNATE, WEAPON (+), (TO) FCS (+) 0409

A signal assigning the particular designated weapon to the particular firecontrol system. See DESIGNATE, (HIERARCHY).

DESIGNATED

See Part II.

DESTRUCTION (MISSILE), ORDER Q505

The signal from the missile weapon control system to the guidance RADAR to order the missile to destroy itself (i.e.) abort the mission.

MIL-STD-1343(NAVY)
1 JULY 1969

DETONATE, WEAPON (+) ORDER

Q113

The signal to explode the particular weapon on or near the designated enemy target.

DIFFERENCE

Use ERROR - See Part II.

DIRECTOR (+)

See Part XI.

DISTANCE

See Part II.

DOOR, CONDITION

Y814

The indication of "open" or "closed" condition of doors to weapon enclosures, handling rooms, etc. May be related to Firing Disable Devices.

DOPPLER FREQUENCY

R304

The difference between the frequency of a radiated signal and its returned echo, indicating the relative radial motion between own ship and target.

DRIFT

See Part II.

DROP, TRACK (+)

X114

The order to discontinue tracking the particular target, usually to a display tracking console or a target tracking equipment.

DWELL TIME, SONAR (+)

T701

The signal controlling the delay time between successive transmissions of the particular sonar equipment, based on the present target range.

MIL-STD-1343(NAVY)
1 JULY 1969

E

ECM (+)

See Part II.

ELEVATION (EQUIPMENT), (HIERARCHY)

	ELEVATION (EQUIPMENT)	
	. ACTUAL	
	. STABILIZED	
	. . COMPUTED	
	. . CORRECTED	
	. . ERROR	
	. . ORDER	
	. . UNCORRECTED	
. . . ECM (+)		. . . OPTICAL (+)
. . . DIRECTOR		. . . RADAR
. . . LAUNCHER (+)		. . . SONAR (+)
. . . MOUNT (+)		. . . RESET

ELEVATION (TARGET), (HIERARCHY)

	ELEVATION (TARGET)
. APPARENT	
. LOS	
. . COMPUTED	
. . CORRECTED	
. . UNCORRECTED	
. . . DESIGNATED	
. . . ERROR	
. . . RELIABLE	
. . . SELECTED	
. . . UNRELIABLE	

ELEVATION (EQUIPMENT), ACTUAL, CORRECTED

B219

The angle between the horizontal plane and the equipment's pointing line, measured in the vertical plane through the pointing line and corrected for various conditions which contribute to error. Positive angles measured upward from the horizontal plane. See ELEVATION (EQUIPMENT), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

- ELEVATION (EQUIPMENT), ACTUAL, ERROR** **E220**
- The signal indicating the error in the transmitted ELEVATION (EQUIPMENT), ACTUAL (COMPUTED, CORRECTED or UNCORRECTED). See ELEVATION (EQUIPMENT), (HIERARCHY).
- ELEVATION (EQUIPMENT), ACTUAL, ORDER** **E221**
- The computed, repeatback, or operator's signal used to bring the value of ELEVATION (EQUIPMENT), ACTUAL (COMPUTED, CORRECTED or UNCORRECTED) into correlation with itself. See ELEVATION (EQUIPMENT), (HIERARCHY).
- ELEVATION (EQUIPMENT), ACTUAL, UNCORRECTED** **E222**
- The angle between the deck plane and the equipment's Feinting line, measured in the normal plane through the pointing line. Positive angles measured upward from the deck plane. See ELEVATION (EQUIPMENT), (HIERARCHY).
- ELEVATION (TARGET), APPARENT, UNCORRECTED**
- The angle between the horizontal plane and the *line* of sight to a submerged target position, measured in the vertical plane through line of sight and corrected for various factors such as stabilization, sound transmission path anomalies, etc. NOTE: often called depression angle. Negative angles measured downward from deck plane. See ELEVATION (TARGET), (HIERARCHY).
- ELEVATION (TARGET), APPARENT, UNCORRECTED** **E116**
- The angle between the deck plane and the line of sight to a submerged target position, measured in the normal plane through the line of sight as detected by sonar. NOTE: often called depression angle. Negative angles measured downward from deck plane. See ELEVATION (TARGET), (HIERARCHY).
- ELEVATION COSRO, REFERENCE** **E223**
- The computed elevation reference signal to position the conical scan beam of the guidance RADAR when operating in the receive only mode.
- ELEVATED (TARGET), LOS, COMPUTED** **E117**
- The angle between the horizontal plane and the line of sight, measured in the vertical plane through the line of sight and as computed by the weapons control system. See ELEVATION (TARGET), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

ELEVATION (TARGET), LOS, CORRECTED **E118**

The angle between the horizontal plane and the line of sight, measured in the vertical plane through the line of sight and as corrected for stabilization, etc. Positive angles measured upward from the horizontal plane. See ELEVATION (TARGET), (HIERARCHY).

ELEVATION (TARGET), LOS, UNCORRECTED **E119**

The angle between the deck plane and the line of sight, measured in the vertical plane through the line of sight. Positive angles measured upward from the deck plane. See ELEVATION (TARGET), (HIERARCHY).

ELEVATION RATE, (HEIRARCHY)

ELEVATION RATE
 . APPARENT
 . LOS
 . VERTICAL
 . . COMPUTED
 . . CORRECTED
 . . OBSERVED
 . . . ERROR
 . . . READY
 . . . RELIABLE
 . . . UNRELIABLE

ELEVATION RATE, APPARENT, OBSERVED **E305**

The rate of change in ELEVATION (TARGET), APPARENT, OBSERVED expressed in angular measure per unit of time. See ELEVATION RATE, (HIERARCHY).

ELEVATION, LOS, COMPUTED **E306**

The rate of change in ELEVATION (TARGET), LOS, COMPUTED expressed in angular measure per unit of time. See ELEVATION RATE, (HIERARCHY).

ELEVATED RATE, LOS, CORRECTED **E307**

The rate of change in ELEVATION (TARGET), LOS, CORRECTED expressed in angular measure per unit of time. See ELEVATION RATE, (HIERARCHY).

MIL-STD-1343(NAVY)

1 JULY 1969

ELEVATION RATE, LOS, OBSERVED E308

The rate of change in ELEVATION (TARGET), LOS, OBSERVED, expressed in angular measure per unit of time. See ELEVATION RATE, (HIERARCHY).

ELEVATION RATE, VERTICAL, COMPUTED E309

The vertical rate of change in target altitude or depth, expressed in linear measure (usually feet or yards) per unit of time (usually per second). Positive values are outward from earth center. NOTE: sometimes called 'climb*' or "dive". See ELEVATION RATE, (HIERARCHY).

ELEVATED (EQUIPMENT), STABILIZED, COMPUTED E224

The angle between the horizontal plane and the equipment's pointing line, measured in the vertical plane through the pointing line when the pointing line is stabilized to compensate for roll, pitch or yaw, and as computed by a firecontrol device. Positive angles measured upward from the horizontal plane. See ELEVATION (EQUIPMENT), (HIERARCHY).

ELEVATION (EQUIPMENT), STABILIZED, ERROR E225

A signal indicating the error in the transmitted ELEVATION (EQUIPMENT), STABILIZED (UNCORRECTED or COMPUTED). See ELEVATION (EQUIPMENT), (HIERARCHY).

ELEVATION (EQUIPMENT), STABILIZED, ORDER E226

The computed, repeatback, or operator's signal used to bring the value of ELEVATION (EQUIPMENT), STABILIZED (COMPUTED, CORRECTED or UNCORRECTED) into correlation with itself. See ELEVATION (EQUIPMENT), (HIERARCHY).

ELEVATION (EQUIPMENT), STABILIZED, UNCORRECTED E227

The angle between the horizontal plane and the equipment's pointing line, measured in the vertical plane through the pointing line when the pointing line is stabilized to compensate for roll, pitch or yaw. Positive angles measured upward from the horizontal plane. See ELEVATION (EQUIPMENT), (HIERARCHY).

EMERGENCY

Use ALARM - See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

ENABLE

Use only in the context of a Safety and Arming (S&A) device operating to allow a fired weapon to be lethal, and as such is an automatic operation which takes place after firing. There is no other use of this term in shipboard firecontrol interlaces.

For other possible applications where equipments or systems are energized or placed in a "ready" condition, use EX-CITATION or ALERT; see PART II.

EQUIPMENT (+) (SITUATION), (HEIRARCHY)

	EQUIPMENT (+) (SITUATION)	
	. ORDER	
	. STATUS	
	. . BUSY TIME	
	. . CONTROL	
	. . GYRO	
	. . POWER	
	. . TEST	
. . . CALIBRATION		. . . REFERENCE
. . . OFF		. . . RESET
. . . ON		. . . RESPONSE

EQUIPMENT (+) (SITUATION), ORDER, BUSY-TIME

X506

The computed signal indicating the time measured from the present during which the particular equipment, such as a director, will be occupied with a given target or targets. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), ORDER, CONTROL

X507

The signal to the control unit of the particular equipment, giving it a designated order. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), ORDER, GYRO

X508

The signal to the gyro of the particular equipment, giving it a designated order. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATIONS), ORDER, POWER

X509

The signal directing that the electrical power to the particular equipment be energized in a designated manner. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969**EQUIPMENT (+) (SITUATION), ORDER, TEST** **X510**

The signal ordering that the particular equipment place itself in a configuration so that it is ready for testing. The type of test (or test procedure) may be indicated. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), STATUS, BUSY-TIME **X611**

The signal computed by the particular equipment, such as a director, indicating the estimated time measured from the present during which the equipment will be occupied with a given target or targets. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), STATUS, CONTROL **X612**

The signal indicating that the control unit of the particular equipment has executed, or is executing, the designated order. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), STATUS, GYRO **X613**

The signal indicating that the gyro of the particular equipment has executed, or is executing, the designated order. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), STATUS, POWER **X614**

The signal indicating that the electrical power to the particular equipment has been energized in the designated manner. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

EQUIPMENT (+) (SITUATION), STATUS, TEST **X615**

The signal indicating that the particular equipment is now in a test configuration. The type of test (or test procedure) may be indicated. See EQUIPMENT (+) (SITUATION), (HIERARCHY).

See Part II.

ESTIMATED

See Part II.

EXCESSIVE

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

EXCITATION

See Part II.

F

The order to fire the designated weapon. This is a broad term. For the proper definitive term, see entries under the particular weapon involved.

FIRING CUTOUT

K815

A signal indicating that the firing mechanism has been inactivated.

FIRING CUTOUT, LIMITS, MOUNT (+)

K816

The signal carrying information regarding the position of the particular mount or launcher relative to its firing cutout limits.

FUZE (+), ORDER, ARM

Q513

The order to arm the particular fuze.

FUZE (+), ORDER, SET

The order to set the particular fuze for the designated elapsed time.

GATE

See Part II.

GENERATED

Use COMPUTED - See Part II.

GO

Use READY - See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

GUIDANCE (MISSILE)

Use functional terms such as BEARING, ELEVATION, RATE, etc. for guidance which is concerned with the positioning of the guidance RADAR beam or control of the launcher prior to and at launching.

See MOUNT (GUN).

GUN TRAIN-ORDER, RELATIVE	K511
The angle between the vertical plane through own ship centerline, and the normal plane through the line of fire, measured in the deck plane. Positive angles measured clockwise from own ship centerline.	
GUN TRAIN-ORDER, TRUE	K512
The angle between the north-south vertical plane, and the normal plane through the line of fire, measured in the deck plane. Positive angles measured clockwise from north.	
GYRO (+), CAGE, ORDER	X514
The signal directing that the particular gyro be caged.	
GYRO (+), CAGED, INDICATION	X616
The signal indicating that the particular gyro is caged.	
GYRO (+), UNCAGE, ORDER	X515
The signal directing that the particular gyro be uncaged.	
GYRO (+), UNCAGED, INDICATION	X617
The signal indicating that the particular gyro is uncaged.	

H

HEADING

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

HEDGEHOG

Use DEPTH CHARGE.

HEIGHT

Use ALTITUDE - See Part II.

HOLD

See Part II.

HOMING (MISSILE (+)), ACTIVE, ORDER

Q516

The signal to the missile on the launching rail or in flight to place the missile in the active homing configuration.

HOMING (MISSILE (+)), PASSIVE, ORDER

Q517

The signal to the missile on the launching rail or in flight to place the missile in the passive homing configuration.

HOMING, SEMI-ACTIVE

Use functional terms such as MISSILE (+), HOMING, PASSIVE to indicate the operation of the missile homing on a target with the aid of an illumination RADAR.

HOOK-AND-MARK

X120

The logic signal to the computer directing it to assign a track number to the target identified by the ball tab.



IDD (INTER-DIRECTOR DESIGNATION)

See Part II.

IDENTITY

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

IFF (SIGNAL), RF, EQUIPMENT (+) I003

The radio frequency signal from the particular IFF interrogator to the antenna, or the radio frequency signal from the antenna to the particular IFF responder.

IFF (SIGNAL), SIF, EQUIPMENT (+) I004

The radio frequency signal from the particular IFF interrogator to the antenna, or the radio frequency signal from the antenna to the particular IFF responder, and which contains coded information in connection with the selective identification feature (SIF).

IFF (SIGNAL), TEST, EQUIPMENT (+) I005

The test signal used to determine the condition of the Particular IFF equipment with regard to its designed operating characteristics.

IFF (SIGNAL), TRIGGER, EQUIPMENT (+) I006

The signal to the particular IFF interrogator to initiate the transmission of IFF interrogation pulses.

IFF (SIGNAL), VIDEO, EQUIPMENT (+) I007

The video frequency signal from the particular responder to the IFF display.

IG (&) RGPO

Use terms from JAMMING, ECH.
(This is the signal generated by the NTDS to order the ECM equipment into a combined Inverse Gain and Range Gate Pull Off ECM mode.)

ILLUMINATION

Use functional terms for AMMUNITION or MOUNT (GUN) for star shell operations, or HOMING, SEMIACTIVE for guidance functions (HT missiles).

INCREMENT

See Part II.

INDICATIONS (+)

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

INFRARED

See Part II.

INOPBERTIVE

Use CASUALTY - See Part II.

INTELLIGENCE (HIERARCHY)

	INTELLIGENCE	
	. ECH	
	. IC	
	. NTDS	
	. RADAR	
	. RADIO	
	. SONAR	
..AUDIO	.. DIRECTIONFINDER	..PULSE
..BARRAGE (JAMMING)	..FACSIMILE	..RETURN
..BOTTOM (BOUNCE)	..FREQUENCY (STD)	..SPOT
..COHERENT	..INDICATING	..TELEMETRY
..CW	..MTI	..TELETYPE
..DIGITAL	..NOISE	..VIDEO
.. .ALARH	.. .INOPLRATIVE	
.. .ALERT	.. .LOCAL	
.. .AUTOMATIC	.. .MANUAL	
.. .AVAILABLE	.. .NOT AVAILABLE	
.. .EMERGENCY	.. .REMOTE	

INTELLIGENCE, ECM, BARRAGE (JAMMING)

JO08

An electronic countermeasures signal of a barrage jamming type generated by an external (i.e. enemy) source.

INTELLIGENCE, ECM, COHERENT

JO09

An electronic countermeasures signal of a coherent type generated by an external (i.e. enemy) source.

INTELLIGENCE ECM, CWI (CONTINUOUS WAVE ILLUMINATION)

JO10

An electronic countermeasures signal of a CWI type generated by an external (i.e. enemy) source.

INTELLIGENCE,

JO11

An electronic countermeasures signal of a noise type generated by an external (i.e. enemy) source.

MIL-STD-1 343 (NAVY)
1 JULY 1969

INTELLIGENCE, ECM, PULSE	J012
An electronic countermeasures signal of a pulse type generated by an external (i.e. enemy) source.	
INTELLIGENCE, ECM, SPOT (JAMMING)	J013
An electronic countermeasures signal of a spot jamming type generated by an external (i.e. enemy) source.	
INTELLIGENCE, ECM, VIDEO	J014
An electronic countermeasures signal of a video type generated by an external (i.e. enemy) source.	
INTELLIGENCE, IC, AUDIO	1818
An interior communications signal containing within its parameters voice intelligence.	
INTELLIGENCE, IC, INDICATING	1817
An interior communications signal containing within its parameters intelligence which indicates a condition or contains an order.	
INTELLIGENCE, NTDS, DIGITAL	I819
A signal within the NTDS system containing within its parameters digital intelligence.	
INTELLIGENCE, RADAR, MTI	6121
A radar signal containing within its parameters moving target indication intelligence.	
INTELLIGENCE, RADAR, RETURN	G122
A RADAR signal containing within its parameters intelligence from a target generated by the return echo signal.	
INTELLIGENCE, RADAR, VIDEO	G015
A radar signal containing within its parameters video intelligence.	
INTELLIGENCE, RADIO, AUDIO	1023
A radio communications signal containing within its parameters voice intelligence.	

MIL-STD-1343(NAVY)
1 JULY 1969

INTELLIGENCE, RADIO, CW	I016
A radio communications signal containing within its parameters CM intelligence.	
INTELLIGENCE, RADIO, DIRECTIONFINDER	I017
A radio communications signal containing within its parameters directionfinder intelligence.	
INTELLIGENCE, RADIO, FACSIMILE	I018
A radio communications signal containing within its parameters facsimile intelligence.	
INTELLIGENCE, RADIO, FREQUENCY (STANDARD)	I019
The signal transmitting the standard radio frequency used for synchronization purposes. It may be further identified as to the specific frequency (i.e. one hundred kilohertz, one megahertz, five megahertz, etc.).	
INTELLIGENCE, RADIO, TELEMTRY	I020
A radio communications signal containing within its parameters telemetry intelligence.	
INTELLIGENCE, RADIO, TELETYPE	I021
A radio communications signal containing within its parameters teletype intelligence.	
INTELLIGENCE, RADIO, VIDEO	I022
A radio communications signal containing within its parameters video intelligence.	
INTELLIGENCE, SONAR, AUDIO	H027
A SONAR signal containing within its parameters video intelligence.	
INTELLIGENCE, SONAR, BOTTOM (BOUNCE)	H024
A SONAR signal containing within its parameters voice intelligence that the signal has travelled via the bottom bounce route.	

MIL-STD-1343(NAVY)
1 JULY 1969

INTELLIGENCE, SONAR, CW	H025
A SONAR signal containing within its parameters intelligence.	
INTELLIGENCE, SONAR, RETURN	H028
A SONAR signal containing within its parameters intelligence from a target generated by the return echo signal.	
INTELLIGENCE, SONAR, VIDEO	H026
A SONAR signal containing within its parameters cm intelligence.	
See Part II.	
INVALID	
Use Terms from JAMMING, ECM (+).	
J	
JAMMING, ECM (+), ALERT	J228
The signal to the ECM equipment to place itself in readiness to conduct electronic countermeasures. The type of jamming may be indicated if required.	
JAMMING, ECM (+), INHIBIT	J229
The signal is an order cease jamming operations as long as the inhibit signal is present.	
JAMMING, ECM (+), READY	J230
The signal that the ECM equipment, which has been placed in an alert condition, is in all respects ready to start jamming operations of the designated type.	
JAMMING, ECM (+), REQUEST	J820
The signal is a request for the authorization to use electronic countermeasures. The nature of the requested radiation may be indicated.	

MIL-STD-1343(NAVY)
1 JULY 1969

JAMMING, ECM (+), START **J231**

The signal is an order to commence jamming operations by the designated equipment.

JAMMING, ECM (+), STOP **J232**

The signal is an order to cease jamming operations by the designated equipment.

JAMMING, ECM, WARNING **J233**

The signal is an indication that electronic jamming is about to begin and the possibility exists that there will be interference with other electronic operations.

JAMMING, HIGH-BAND, CLEAR **J821**

The logic signal from NTDS to the FCS radar console indicating that a jammer is not operating effectively in the upper portion of the C Band.

JAMMING, LOW-BAND, CLEAR **J822**

The logic signal from NTDS to the FCS radar console indicating that a jammer is not operating effectively in the lower portion of the C Band.

JAMMING, RADAR (+), ALERT **G823**

The signal to indicate that the beam of the particular RADAR as currently programmed will move into a region where it will receive external passive jamming, as from chaff, window, etc.

L

L TRAJECTORY, ORDER **Q518**

The order to the TALOS missile system to use the long range surface target mode.

L TRAJECTORY, STATUS **Q618**

The indication thdt the TALOS missile system is in the long range surface target mode.

MIL-STD-1343(NAVY)
1 JULY 1969

LATITUDE

See Part II.

LAUNCHER (+)

See Part II.

LAUNCHER (+) (MISSILE), ORDER, STOW

K519

The signal ordering that the particular missile launcher be placed in the stowed position.

LAUNCHER (+) (MISSILE), STATUS, STOW

K619

The signal indicating that the particular missile launcher is in the stowed position.

LAUNCHER TRAIN-ORDER, RELATIVE

B234

The angle between the vertical plane through own ship centerline, and the normal plane through the line of fire, measured in the deck plane. Positive angles measured clockwise from own ship centerline. Use TRAIN (EQUIPMENT), RELATIVE, UNCORRECTED, LAUNCHER (+).

LAUNCHER TRAIN-ORDER, TRUE

B235

The angle between the vertical plane through own ship centerline, and the normal plane through the line of fire, measured in the deck plane. Positive angles measured clockwise from north. Use TRAIN (EQUIPMENT), TRUE, UNCORRECTED, LAUNCHER (+).

LEVEL

Y824

The angle between the horizontal plane and the deck plane, measured in the vertical plane through the line of sight. Positive angles measured downward from the horizontal plane on the target side of own ship. (NOTE: Although still used in some older systems, in current practice this quantity is computed from stable vertical and 1011 and pitch signals). See ATTITUDE, (HIERARCHY).

LOAD ORDER, MISSILE (+), CONTINUOUS

The signal to the missile control area to load the particular missiles continuously.

MIL-STD-1343(NAVY)
1 JULY 1969

LOAD ORDER, MISSILE (+), NONE **Q521**

The signal to the missile control area to place the particular missile on the rail.

LOAD ORDER, MISSILE (+), ONE **Q522**

The signal to the missile control area to load one particular missile on the rail.

LOAD ORDER, MISSILE (+), SELECT **Q523**

The signal to the missile control area to be prepared to execute a load order for the particular missile.

LOCAL

See Part II.

LOCKED-ON

See Part II.

LONGITUDE

See Part II.

LOW ANGLE

LOW (MODE)

See Part II.

MANUAL

See Part II.

MARK

See Part II.

MIL-STD-1343(NAVY)

1 JULY 1969

MASTER SYNCHRONIZE, ORDER, BLANKING PULSE	T236
The signal carrying the blanking gate timing intelligence from the master synchronizer to the RADAR receivers under its control.	
MASTER SYNCHRONIZER, ORDER, ENERGIZE	T237
The signal to energize the master synchronizer.	
MASTER SYNCHRONIZER, ORDER, REPTITION RATE	T238
A signal to the master synchronizer establishing the desired repetition rate to be used.	
MASTER SYNCHRONIZER, ORDER, TIMING TRIGGER	T239
The signal carrying the timing trigger from the master synchronizer to the RADARS under its control.	
MASTER SYNCHRONIZER, STATUS, (ID) CONTROL	T240
The indication that the master synchronizer is in control of the guidance RADARS.	
MASTER SYNCHRONIZER, STATUS, REPTITION RATE	T241
The indication of the repetition rate which is being used by the master synchronizer.	
See Part II.	
MINESWEEPING, ORDER, SELECT	Y825
The order to conduct minesweeping operations in the selected mode.	
MINESWEEPING, STATUS, SELECT	Y826
The indication that minesweeping operations are being conducted in the selected mode.	
MISSILE (+), (IN) ASSEMBLY AREA	Q620
The signal indicating that the particular missile is in the assembly area.	

MIL-STD-1343(NAVY)
1 JULY 1969

- MISSILE (+), AVAILABL** **Q621**
- The indication of the invento~y status of the missiles which are available for use.
- MISSILE (+), BURST OBSERVED** **Q622**
- The signal indicating that the tracking equipment has observed the explosion of the warhead of the particular missile.
- MISSILE (+), CAPTURE GUIDANCE, ON** **Q623**
- The indication, for a particular beamridiug missile on the rail preparatory to launch, that its guidance package is energized and functioning properly, and is ready to accept guidance data when the missile reaches capture.
- MISSILE (+), CLUTTER REJECT BAND** **Q524**
- The signal to the particuhr missile on the launching rail to position the midpoint of the clutter reject band in the doppler frequency spectrum.
- MISSILE (+), DUD, (ON) RAIL (+)** **Q624**
- The indication that the particular missile now on the de- signated rail was a dud (i.e. failed to fire as ordered).
- MISSILE (+), ENGLISH BIAS, ORDER** **Q525**
- The signdl to the pdrtlCUldr missile on the launching rail to establish the English Bias control (i.e. reduce the missile course response after launch).
- MISSILE (+), GRAVITY BIAS, SELECT** **Q526**
- The signal to the particular missile (on the right arm of the launcher) energizing the gravity bias relay.
- MISSILE (+), HEADORDER, A** **Q527**
- The signal transmitting positioning data to the missile A Head while the missile is on the rail preparatory to launch.
- MISSILE (+), HEAD-ORDER, B** **Q528**
- The signal transmitting positioning data to the missile B Head while the missile is on the rail preparatory to launch.

MIL-STD-1343(NAVY)
1 JULY 1969

MISSILE (+), INCOMING/OUTGOING, SELECT	Q529
The signal to the particular missile on the launcher rail setting the start of the doppler sweep (either above or below the point of predicted clutter).	
MISSILE (+), JETTISON, (FROM) RAIL (+)	Q530
The order to jettison the particular missile now on the designated rail.	
MISSILE (+), LAUNCH	Q531
The order to launch (fire) the particular missile.	
MISSILE (+), LAUNCH, INTENT (TO)	Q534
The signal to the particular missile on the launcher rail activating the missile auxiliary power supply system.	
MISSILE (+), LAUNCHED, (FROM) RAIL (+)	Q625
The indication that the particular missile has been launched (fired) from the designated rail.	
MISSILE (+), LOADED, (ON) RAIL (+)	Q626
The indication that the particular missile is loaded on the designated rail.	
MISSILE (+), (ON) RAIL (+), ALARM	
The warning indication that the particular missile now on the designated rail is about to be launched (fired).	
MISSILE (+), READY, (ON) RAIL (+)	Q628
The indication that the particular missile, now on the designated rail, is in all respects ready to launch (fire).	
MISSILE (+), ROLL GYRO, ORDER	Q532
The signal to the roll gyro in the missile control head transmitting ship roll data to the gyro up to the moment of launch.	
MISSILE (+), SELECTED	Q533
The particular missile has been selected for possible use.	

MIL-STD-1343 (NAvY)
1 JULY 1969

MISSILE (+), THRUST CUTOFF, POSITION

N702

The indication of the computed position of thrust cutoff of the particular missile which is ready to launch. It may be expressed in a designated frame of reference (i.e. XYZ coordinates, or bearing, distance, and altitude, etc.).

MISSILE (+), (IN) TRANSFER AREA

Q629

The signal indicating that the particular missile is in the transfer area.

MISSILE (+), (IN) TRANSFER AREA, READY

Q630

The signal indicating that the particular missile now in the transfer area is in all respects ready to be loaded on the launching rail.

MISSILE (+), LOAD, (FROM) RAIL (+)

Q535

The order to unload the particular missile from the designated rail and return it to stowage.

MISSILE (+), VNR (VARIABLE NAVIGATION RATIO), ORDER

Q536

The signal to the particular missile on the launching rail setting the missile navigation ratio as predicted by the launcher computer.

MIXED LOAD, LAUNCHER (+)

K827

The indication that the particular missile launcher is loaded with differing types of missiles. The types of missiles may be indicated.

MODE (FCS), (HIERARCHY)

	MODE (FCS)	
	. ORDER	
	. STATUS	
	. . EQUIPMENT (+)	
	. . FCS (+)	
	. . WEAPON (+)	
. . . ANTI-AIRCRAFT		. . . LOW-E (MODE)
. . . AUTOMATIC		. . . MANUAL
. . . BUSY OWN CONTROL		. . . SIMULATED
. . . CASUALTY		. . . SURFACE
. . . LOCAL		. . . TEST

MIL-STD-1343(NAVY)
1 JULY 1969

MODE (FCS), ORDER, EQUIPMENT (4) 0242

The signal to the particular firecontrol equipment directing it to assume a prescribed "state-of-being". See MODE (PCS), (HIERARCHY).

MODE (FCS), ORDER, FCS (+) 0243

The signal to the particular firecontrol system directing it to assume a prescribed "state-of-being". See MODE (FCS), (HIERARCHY).

MODE (FCS), ORDER, WEAPON (+) 0411

The signal to the particular weapon directing it to assume prescribed "state-of-being". See MODE (PCS), (HIERARCHY).

MODE (FCS), STATUS, EQUIPMENT (+) 0244

The signal indicating the current "state-of-being" of the particular firecontrol equipment. See MODE (PCS), (HIERARCHY).

MODE (FCS), STATUS, FCS (+) 0245

The signal indicating the current "state-of-being" of the particular firecontrol system. See MODE (FCS), (HIERARCHY).

MODE (FCS), STATUS, WEAPON (+) 0412

The signal indicating the current "state-of-being" of the particular weapon. See MODE (PCS), (HIERARCHY).

MODIFIED

Use DESIGNATED - See Part II.

MOTION

Use VEHICLE (MOTION).

MOUNT (+)

See Part II.

MOUNT (GUN) (+), ALERT K537

The signal to the particular mount to place itself in a mode to receive further instructions.

**MIL-STD-1343(NAVY)
1 JULY 1969**

MOUNT (GUM) (+), CEASE FIRE	K538
The signal to cease firing of the particular mount.	
MOUNT (GUM) (+), FIRE	K539
The signal to commence firing of the particular mount. The mode of operation, either continuous, single shot, or otherwise, may be indicated.	
MOUNT (GUM) (+), FIRED	K631
The signal that the particular mount has been fired as ordered.	
MOUNT (GUM) (+), LOAD	K540
The order to load the particular mount with the designated round of ammunition.	
MOUNT (GUN) (+), LOADED	K632
The indication that the particular mount has been loaded with the designated round of ammunition.	
MOUNT (GUN) (+), ORDER, STOW	K541
The signal ordering that the Particular gun mount be placed in the stowed position.	
MOUNT (GUM) (+), READY	K633
The indication that the particular mount is in all respects ready to commence firing.	
MOUNT (GUM) (+), STATUS, STOW	K634
The signal indicating that the particular gun mount is in the stowed position.	
MOUNT (GUM) (+), UNLOAD, BREECH	K542
The signal ordering that the particular mount shall be unloaded through the breech and the round returned to the magazine.	
MOUNT (GUM) (+), UNLOAD, MUZZLE	K543
The signal ordering that the particular mount shall be unled through the muzzle.	

MIL-STD-1343(NAVY)
1 JULY 1969

N

NO-GO

Use NOT READY - See Part II.

NOT AVAILABLE

See Part II.

NOT LOCKED-ON

See Part II.

NOT READY

See Part II.

O

OFF

Use INDICATION - See Part II.

ON

Use INDICATION - See Part II.

OPEN DOOR

Use DOOR, CONDITION.

OPTICAL (+)

See Part II.

ORDER

See Part II.

OVERTEMPERATURE ALARM SUPPLY

Use POWER (ELECTRIC).

MIL-STD-1343(NAVY)
1 JULY 1969

OWNSHIP COURSE

See VEHICLE (MOTION), (HIERARCHY).

OWNSHIP SPEED

See VEHICLE (MOTION), (HIERARCHY).

P

PARALLAX

The linear displacement of the equipment from the reference point. (NOTE: This value is fixed by ship structure geometry and is useful only in the computation of corrections to TRAIN and ELEVATION ORDERS. See PARALLAX (UNIT), TRAIN, EQUIPMENT and PARALLAX (UNIT), ELEVATION, EQUIPMENT).

PARALLAX (UNIT), ELEVATION, EQUIPMENT (+)

E704

The correction applied to equipment elevation order as computed for the reference point to obtain elevation order for an equipment displaced a unit vertical distance (usually ten yards) from the reference point.

PARALLAX (UNIT), TRAIN, EQUIPMENT (+)

B703

The correction applied to equipment train order as computed for the reference point to obtain train order for an equipment displaced a unit distance (usually 10C yards) from the reference point.

PASSIVE

See Part II.

PHASING ORDER, RADAR (+)

E705

The computed correction to the guidance RADAR beam instantaneous phase angle to relate it to the missile vertical. It is computed from the angle between the projection of the RADAR vertical on the boresight plane and the projection of the missile vertical on the boresight plane measured about the LSM. Positive direction is clockwise when viewed along the LOS to the missile.

MIL-STD-1343(NAVY)
1 JULY 1969**POSITION, (HIERARCHY)**

	POSITION	
	. OWN SHIP	
	. TARGET	
	. . GRID ORIGIN	
	. . MERCATOR	
	. . REFERENCE POINT	
. . . ALTITUDE	. . . DISTANCE	. . . X-COORDINATE
. . . APPARENT	. . . ESTIMATED	. . . Y-COORDINATE
. . . BEARING	. . . LATITUDE	. . . Z-COORDINATE
. . . COMPUTED	. . . LONGITUDE	

POSITION, OWNERSHIP, GRID ORIGIN**N828**

The geographical location of own ship with reference to an assigned grid origin. See POSITION, (HIERARCHY).

POSITION, OWNERSHIP, MERCATOR**N829**

The geographical location of own ship with reference to the Mercator Projection. See POSITION, (HIERARCHY).

POSITION, OWNERSHIP, REFERENCE POINT**N830**

The geographical location of own ship with reference to an established reference point. See POSITION, (HIERARCHY).

POSITION, TARGET, GRID ORIGIN**N123**

The geographical location of the target with reference to an assigned grid origin. See POSITION, (HIERARCHY).

POSITION, TARGET, MERCATOR**N124**

The geographical location of the target with reference to the Mercator Projection. See POSITION, (HIERARCHY).

POSITION, TARGET, REFERENCE POINT

The geographical location of the target with reference to an established reference point. See POSITION, (HIERARCHY).

POWER, CHANGEOVER

Use POWER (ELECTRIC).

MIL-STD-1343(NAVY)
1 JULY 1969

POWER (ELECTRIC), FUNCTIONAL

Use functional terms like RANGE, BEARING, DESIGNATE, MODE, etc. for POWER situations where the power contains within its parameters the information bits to transmit, perform or display a firecontrol function.

POWER (ELECTRIC), INDICATING

Use functional terms like ALARM, OVERTEMPERATURE, etc. for POWER (ELECTRIC) situations where the power contains within its parameters the information bits to indicate a situation.

POWER (ELECTRIC), REFERENCE, AC (+) P831

Alternating current electric power which provides the basic reference to a synchro system or to other components. Parameters of voltage and frequency can be further defined for the particular interface application.

POWER (ELECTRIC), REFERENCE, DC (+) P832

Direct current electric power which provides the basic reference in a measurement system. Parameters of voltage and excursion limits can be further defined for the particular interface application.

POWER (ELECTRIC), SHIP-SERVICE, AC (+) P833

Alternating current electric power from the ship service supply lines, either main or auxiliary, which is used as a source of energy. Parameters of this AC power can be further defined for the particular interface application. At the interface these parameters are: voltage frequency, power factor, phase, regulation ripple, and ground/neutral/return.

POWER (ELECTRIC), SHIP-SERVICE, DC (+) P834

Direct current electric power from the ship service supply lines, either main or auxiliary, which is used as a source of energy. Parameters of this DC power can be further defined for the particular interface duplication. At the interface these parameters are: voltage, regulation, ripple, connection (positive or negative ground), and ground/neutral/return.

PULSE

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

PULSE, CLOCK, RADAR (+)

T246

The pulse signal for digital data timing reference to synchronize the digital circuitry with the particular RADAR.

R

RADAR (+)

See Part II.

RADAR (+), ORDER, BEAM (SHAPE)

G545

The order to the particular RADAR to operate with a designated beam shape.

RADAR (+), ORDER, BEAM (SPREAD)

G546

The order to the particular RADAR to operate with a designated beam spread.

RADAR (+), ORDER, BEAM (PROGRAM)

G544

The order to the particular RADAR to operate with a designated beam program.

RADAR (+), ORDER, CONTACT

G547

The order to the particular RADAR to attempt to acquire the designated (or suspected) target.

RADAR (+), ORDER, CWI

G548

The order to the particular RADAR to operate in the CWI mode.

RADAR (+), ORDER, SEARCH

G549

The order to the particular RADAR to conduct search operations in the designated manner.

RADAR (+), ORDER, TRACE (AIDED)

G553

The order to the particular RADAR to track the designated target with the aid of the weapons control system computer.

MIL-STD-1343(NAVY)
1 JULY 1969

- RADAR (+), ORDER, TRACK (MISSILE)** G551
The order to the particular RADAR to track the designated (or bogey) missile target.
- RADAR (+), ORDER, TRACK (SURFACE)** G552
The order to the particular RADAR to track the designated (or bogey) surface target.
- RADAR (+), ORDER, TRACK (AIRCRAFT)** G550
The order to the particular RADAR to track the designated (or bogey) aircraft target.
- RADAR (+), STATUS, BEAM (SHAPE)** G636
The indication that the particular RADAR is operating with the designated beam shape.
- RADAR (+), STATUS, BEAM (SPREAD)** G637
The indication that the particular RADAR is operating with the designated beam spread.
- RADAR (+), STATUS, BEAM (PROGRAM)** G635
The indication that the particular RADAR is operating with the designated beam program.
- RADAR (+), STATUS, CONTACT** G638
The indication that the particular RADAR has acquired the designated (or suspected) target.
- RADAR (+), STATUS, CWI** G639
The indication that the particular RADAR is operating in the CWI mode.
- RADAR (+), STATUS, SEARCH** G640
The indication that the particular RADAR is conducting search operations in the designated manner.
- RADAR (+), STATUS, TRACK (AIDBD)** G644
The indication that the particular RADAR is tracking the designated target with the aid of the weapons control system computer.

MIL-STD-1343(NAVY)
1 JULY 1969

RADAR (+), STATUS, TRACK (MISSILE)	G642
The indication that the particular RADAR is tracking the designated (or bogey) missile target.	
RADAR (+), STATUS, TRACK (SUB-FACE)	G643
The indication that the particular RADAR is tracking the designated (or bogey) surface target.	
RADAR (+), STATUS, TRACK (AIRCRAFT)	G641
The indication that the particular RADAR is tracking the designated (or bogey) aircraft target.	
RADIO (+), ORDER, CHANNEL (+)	F554
The order to the particular radio equipment to operate on the designated channel.	
RADIO (+), ORDER, FREQUENCY	F555
The order to the particular radio equipment to operate on the designated frequency.	
RADIO (+), ORDER, POPULATION (+)	F556
The order to the particular radio equipment to operate with the designated type of modulation. The type of modulation, such as CU, voice, FSK, TTY, etc. may be indicated.	
RADIO (+), STATUS, CHANNEL (+)	F645
The indication that the particular radio equipment is operating on the designated channel.	
RADIO (+), STATUS, FREQUENCY	F646
The indication that the particular radio equipment is operating on the designated frequency.	
RADIO (+), STATUS, MODULATIONS (+)	F647
The indication that the particular radio equipment is operating with the designated type of modulation. The type of modulation, such as CU, voice, FSK, TTY, etc. may be indicated.	

MIL-STD-1343 (NAVY)
1 JULY 1969

- RAIL (+) (MISSILE), ORDER, EXTEND** **K557**
 The signal ordering that the designated missile rail be extended.
- RAIL (+) (MISSILE), ORDER, LOAD** **K558**
 The signal ordering the loading of the selected missile on the designated missile rail.
- RAIL (+) (MISSILE), ORDER, RETRACT** **K559**
 The signal ordering that the designated missile rail be retracted.
- RAIL (+) (MISSILE), ORDER, SELECT** **K560**
 The signal ordering the selection of the designated missile rail.
- RAIL (+) (MISSILE), READY, (TO) LOAD** **K648**
 The signal indicating that the designated missile rail is in all respects ready to be loaded with the selected missile.
- RAIL (+) (MISSILE), READY, PORT** **K649**
 The signal indicating that the designated missile rail is in all respects ready for use to port.
- RAIL (+) (MISSILE), READY, STARBOARD** **K650**
 The signal indicating that the designated missile rail is in all respects ready for use to starboard.
- RAIL (+) (MISSILE), STATUS, CLEAR** **K651**
 The signal indicating that the missile has left the designated rail.
- RAIL (+) (MISSILE), STATUS, EMPTY** **K652**
 The signal indicating that the designated missile rail is empty (there is no missile presently loaded on the designated missile rail).
- RAIL (+) (MISSILE), STATUS, EXTENDED**
 The signal indicating that the designated missile rail is extended.

MIL-STD-1343(NAVY)

1 JULY 1969

RAIL (+) (MISSILE), STATUS, LOADED **K654**

The signal indicating that the selected missile has been loaded onto the designated missile rail.

RAIL (+) (MISSILE), STATUS, RETRACTED **K655**

The signal indicating that the designated missile rail is retracted.

RAIL (+) (MISSILE), STATUS, SAFE **K656**

The signal indicating that the designated missile rail (and its loaded missile, if any) is in a safe condition.

RAIL (+) (MISSILE), STATUS, SELECT **K657**

The signal indicating that the designated missile rail has been selected for possible use.

RANGE {TARGET}, (HIERARCHY)

	RANGE (TARGET)	
	. APPARENT	
	. EAST-WEST (E-U)	
	. HORIZONTAL	
	. LINE-OF-SIGHT (LOS)	
	. NORTH-SOUTH (N-S)	
	. . COMPUTED	
	. . CORRECTED	
	. . OBSERVED	
. . . ASSISTANCE . . .	MARK	. . . SELECTED
. . . CALIBRATION . . .	OPTICAL (+)	. . . SONAR (+)
. . . COMPENSATION . . .	ORDER	. . . TEST
. . . ERROR	. . . RADAR (+)	. . . TRIGGER
. . . GATE	. . . REFERENCE	. . . UNRELIABLE
. . . HOLD	. . . RELIABLE	

RANGE (TARGET), APPARENT, OBSERVED **R126**

The distance, expressed in yards (or nautical miles), from own ship to an underwater target, as indicated by sonar. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), E-W, COMPUTED **R127**

The component of horizontal range in the E-U vertical plane, as generated by a solving device such as a firecontrol computer. See RANGE (TARGET), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

RANGE (TARGET), E-W, CORRECTED **R128**

The component of horizontal range in the E-M vertical plane as generated by a solving device such as a firecontrol computer, and corrected for various conditions which contribute to error. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), HORIZONTAL, COMPUTED **R129**

The projection of RANGE (TARGET), LOS, in the horizontal plane by a vertical plane through the LOS, as generated by a computer, navigational device, or other means not relying on direct observations. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), HORIZONTAL, CORRECTED **R130**

The projection of RANGE (TARGET), LOS, in the horizontal plane by a vertical plane through the LOS, as generated by a computer, navigational device, or other means not relying on direct observations and corrected for various conditions which contribute to errors. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), LOS, COMPUTED **R131**

The distance, expressed in yards (or nautical miles) from own ship to target, as generated by a computer, navigational device, or other means not relying on direct observations. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), LOS, CORRECTED **R132**

The distance, expressed in yards (or nautical miles) from own ship to target, corrected for various conditions which contribute to error. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), LOS, OBSERVED **R133**

The distance, expressed in yards (or nautical miles) from own ship to target, measured along the line-of-sight. See RANGE (TARGET), (HIERARCHY).

RANGE (TARGET), M-S, COMPUTED **R134**

The component of horizontal range in the N-S vertical plane as generated by a solving device such as a firecontrol computer. See RANGE (TARGET), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969**RANGE (TARGET), N-S, CORRECTED****R135**

The component of horizontal range in the N-S vertical plane as generated by a solving device such as a firecontrol computer, and corrected for various conditions which contribute to error. See RANGE (TARGET), (HIERARCHY).

RANGE RATE, (HEIRARCHY)

	RANGE RATE	
	. APPARENT	
	. E-W	
	. HORIZONTAL	
	. LOS	
	. N-S	
	. . . COMPUTED	
	. . . CORRECTED	
	. . . OBSERVED	
. . .	COMPENSATION	. . . READY
. . .	ERROR	. . . RELIABLE
. . .	HOLD	. . . SELBCTED
. . .	MARK	. . . UNRELIABLE

RANGE RATE, APPARENT, OBSERVED**R310**

The rate of change in RANGE (TARGET), APPARENT, OBSERVED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, B-D, COMPUTED**R311**

The rate of change in RANGE (TARGET), E-W, COMPUTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, E-W, CORRECTED**B312**

The rate of change in RANGE (TARGET), E-W, CORRECTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, HORIZONTAL, COMPUTED**R313**

The rate of change in RANGE (TARGET), HORIZONTAL, COHPUTED expressed in linear movement **per second or in** knots. See RANGE RATE, (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

RANGE RATE, HORIZONTAL, CORRECTED **R314**

The rate of change in RANGE (TARGET), HORIZONTAL, CORRECTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, LOS, COMPUTED **R315**

The rate of change in RANGE (TARGET), LOS, COMPUTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, LOS, CORRECTED **R316**

The rate of change in RANGE (TARGET), LOS, CORRECTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, LOS, OBSERVED **R317**

The rate of change in RANGE (TARGET), LOS, OBSERVED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, N-S, COMPUTED **R318**

The rate of change in RANGE (TARGET), N-S, COMPUTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

RANGE RATE, N-S, CORRECTED **R319**

The rate of change in RANGE (TARGET), N-S, CORRECTED expressed in linear movement per second or in knots. See RANGE RATE, (HIERARCHY).

READY

See Part II.

REBOUND

Use DDSOT. See also TEST in Part II.

REFERENCE

See Part II.

RBLIABL

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

REMOTE

See Part II.

REQUEST

See Part II.

RESET

See Part II.

RESPONSE

See Part II.

ROUNDS (FIRED), NUMBER (OF), GUN (+)

K835

The signal indicating the total number of rounds fired by the Particular gun during the designated period.

S

SAMPLE

See Part II.

See Part II.

SIGHT ANGLE

E247

The angle between the line of fire, and the slant plane through the line of sight and through the equipment elevation axis in the horizontal or deck plane, measured from the line of fire in the plane (vertical or normal) through the line of fire. (NOTE: SIGHT ANGLE may also be measured in the plane (vertical or normal) through the line of sight).

MIL-STD-1343(NAVY)
1 JULY 1969

SIGHT DEFLECTION

B248

The angle between the line of sight and the plane (vertical or normal) through the line of fire, measured from the line of sight in the slant plane through the line of sight and through the equipment elevation axis in the horizontal or deck plane. (NOTE: SIGHT Deflection may also be measured in the slant plane through the line of fire).

SIMULATED

See Part II.

SLEW

See Part II.

SMOOTHED

See Part II.

SONAR (+)

See Part II.

SONAR (+), ORDER, ATTACK (SEQUENCE)

H561

The order to the particular SONAR to utilize a designated attack sequence.

SONAR (+), ORDER, CONTACT

H562

The order to the particular SONAR to attempt to acquire the designated (or suspected) target.

SONAR (+), ORDER, PROGRAM (SEARCH)

H563

The order to the particular SONAR to conduct search operations utilizing a designated search program.

SONAR (+), ORDER, SEARCH

H564

The order to the particular SONAR to conduct search operations in the designated manner.

SOSAB (+), ORDER, TRACK (AIDED)

H566

The order to the particular SONAR to track the designated target with the aid of the weapons control system computer.

MIL-STD-1343(NAVY)

1 JULY 1969

SONAR (+), ORDER, TRANSDUCER (DEPTH) H565

The order to the particular SONAR to operate with its variable depth transducer at the designated depth.

SONAR (+), STATUS, ATTACK (SEQUENCE) H658

The indication that the particular SONAR is operating with the designated attack sequence.

SONAR (+), STATUS, CONTACT H659

The indication that the particular SONAR has acquired the designated (or suspected) target.

SONAR (+), STATUS, PROGRAM (SEARCH) E660

The indication that the particular SONAR is conducting search operations utilizing the designated search program.

SONAR (+), STATUS, SEARCH H661

The indication that the particular SONAR is conducting search operations in the designated manner.

SONAR (+), STATUS, TRACK {AIDED} H663

The indication that the particular SONAR is tracking the designated target with the aid of the weapons control system computer.

SONAR (+), STATUS, TRANSDUCER (DEPTH) H662

The indication that the particular SONAR is operating with its variable depth transducer at the designated depth.

See Part II.

SPOT, BEARING, LEPT B249

The corrective input to the BEARING quantity. Negative values are LEFT.

SPOT, BEARING, RIGHT B250

The corrective input to the BEARING quantity. Positive values are RIGHT.

MIL-STD-1343(NAVY)
1 JULY 1969

SPOT, ELEVATION, DOWN **E251**

The corrective input to the ELEVATION quantity. Negative values are DOWN.

SPOT, ELEVATION, UP **E252**

The corrective input to the ELEVATION quantity. Positive values are UP.

SPOT, RANGE, UP **R253**

The corrective input to the RANGE quantity. Negative values are IN.

SPOT, RANGE, OUT **R254**

The corrective input to the RANGE quantity. Positive values are OUT.

Use ALERT - See Part II.

See Part II.

STOP

See Part II.

SUBROC

Use suitable functional terms for missile, torpedo or depth charge in connection with weapons control data supplied to the SUBROC prior to and at launching (fire).

See Part II.

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

T

TARGET (+), CATEGORY	X136
<p>The signal, generated by the weapon control system, to associate an identifying category mark with the particular target on a designated monitor scope.</p>	
TARGET (+), ENTRY	X137
<p>The signal indicating that the particular RADAR or SONAR echo represents a valid target and that the target should be entered into the weapon control computational system. See also ARROU CONTROL and HOOK-AND-MARK.</p>	
TARGET (+), INDICATION	X138
<p>The signal, (initiated by the radar operator) indicating the probable type of air target (i.e.) jet, multi-engine, missile, etc.</p>	
TARGET (+), KILL	X139
<p>The signal (initiated by the radar operator) indicating that the weapon killed the particular target.</p>	
TARGET (+), MISSED	X140
<p>The signal (initiated by the radar operator) indicating that the weapon missed the target.</p>	
TARGET (+), SURVIVED	X141
<p>The signal (initiated by the radar operator) indicating that the weapon probably damaged but did not kill the particular target.</p>	
<p>See Part II.</p>	
TEMPERATURE, AIR	Y836
<p>The signal indicating the average temperature of the air mass along the predicted flight path.</p>	

MIL-STD-1343(NAVY)
1 JULY 1969

See Part II.

TIME, (OF) FLIGHT, (TO) CAPTURE **T413**

The time of flight of the missile to the missile capture position.

TIME, (OF) FLIGHT, (TO) FUZE BURST **T414**

The time of flight of the projectile or missile to the point of fuze burst.

TIME, (OF) FLIGHT, (TO) INTERCEPT **T415**

The time of flight of the missile to intercept with the target.

TIME, (OF) FLIGHT, (TO) SEPARATION **T416**

The time of flight of the missile to the point of the booster separation.

TIME, (OF) FLIGHT, (TO) TARGET **T417**

The time of flight of the projectile or missile to the future target position.

TORPEDO, ADVANCE, COMPUTED

The distance, computed by a firecontrol device, between the mean torpedo track following the point of course steady and a line parallel to this track passing through the point of entry.

TORPEDO (+), APPROVED **U567**

The particular torpedo, which has been indicated as available, is approved for a certain mission use, and has been through all required preliminary adjustments.

TORPEDO (+), AVAILABL **U664**

The indication of the inventory status of the torpedoes which are available for use.

MIL-STD-1343(NAVY)
1 JULY 1969

TOREPDO, COURSE, INDICATION	U707
The signal, computed by a firecontrol device, indicating the present course of the torpedo. Positive angles measured clockwise from north.	
TOREPDO, DEPTH, ORDER	
The signal to the depth setting mechanism of the torpedo tube to set the prescribed depth in the control mechanism of the loaded torpedo.	
TOREPDO (+), DUD, (IN) TUBE	U665
The particular torpedo, when tired, did not clear the tube.	
TOEPBDO (+), FIRE, ORDER	U569
The order to fire the particular torpedo.	
TORPEDO (+), FIRE, PERMISSION	U570
The signal giving permission to fire the particular torpedo at the appropriate time.	
TORPEDO (+), FIRED, INDICATOR	U666
The signal indicating that the particular torpedo has been fired.	
TORPEDO, GYRO ANGLE, ORDER	U571
The signal to the gyro setting mechanism of the torpedo tube to set the prescribed gyro angle (the angle between the intended torpedo track and the tube direction at launch) in the steering mechanism of the loaded torpedo.	
TORPEDO (+), JETTISON, ORDER	U572
The order to jettison the particular torpedo.	
TORPEDO (+), LOAD, (IN) TUBE (+)	U573
The order to load the particular torpedo in the particular tube.	
TORPEDO (+), LOADED	U667
The indication that the particular torpedo has been loaded in the tube as ordered.	

MIL-STD--1343(NAVY)
1 JULY 1969

TORPEDO, REACH **U708**

The signal indicating the predicted distance along the torpedo track between point of launch (underwater firing) or entry (surface firing) and the point of steering.

TORPEDO (+), READY, (TO) FIRB **U668**

The indication that the particular torpedo is in all respects ready to fire.

TORPEDO, RUN, END **U709**

The signal, computed by the weapons control system, indicating that the torpedo propulsion motor has shut down. It also signifies the end of the torpedo run.

TORPEDO (+), SELECTED **U669**

The particular torpedo has been selected for possible use.

TORPEDO (+), FIRE GUIDANCE, ORDER **U574**

The signal (via the guidance wire) to the running torpedo ordering its movements, such as course, etc.

TRAIN (EQUIPMENT), (HEIRARCHY)

TRAIN (EQUIPMENT)
 . RELATIVE
 . TRUE
 . . ACTUAL
 . . ERROR
 . . ORDER
 . . . DIRECTOR (+)
 . . . LAUNCHER (+)
 . . . MOUNT (+)

TRAIN (EQUIPMENT), RELATIVE, ACTUAL **B255**

The angle between the vertical plane through own ship centerline, and the vertical plane through the equipment's pointing line, measured in the deck plane. Positive angles measured clockwise from own ship centerline. See TRAIN (EQUIPMENT), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969**TRAIN (EQUIPMENT), RELATIVE, ERROR** **B256**

A signal indicating the error in the transmitted TRAIN (EQUIPMENT), RELATIVE, ACTUAL. See TRAIN (EQUIPMENT), (HIERARCHY).

TRAIN (EQUIPMENT), RELATIVE, ORDER **B257**

A computed, repeatback, or operator's signal used to bring the value of TRAIN (EQUIPMENT), RELATIVE, ACTUAL into correlation with itself. See TRAIN (EQUIPMENT), (HIERARCHY).

TRAIN (EQUIPMENT), TRUE, ACTUAL **B258**

The angle between the north-south vertical plane, and the vertical plane through the equipment's pointing line, measured in the deck plane. Positive angles measured clockwise from north. See TRAIN (EQUIPMENT), (HIERARCHY).

TRAIN (EQUIPMENT), TRUE, ERROR **B259**

A signal indicating the error in the transmitted TRAIN (EQUIPMENT), TRUE, ACTUAL. See TRAIN (EQUIPMENT), (HIERARCHY).

TRAIN (EQUIPMENT), TRUE, ORDER **B260**

A computed, repeatback, or operator's signal used to bring the value of TRAIN (EQUIPMENT), TRUE, ACTUAL into correlation with itself. See TRAIN (EQUIPMENT), (HIERARCHY).

TRAVERSE (EQUIPMENT) **B261**

The angle between the line of sight and the plane (vertical or normal) through the line to the future target position, measured from the line of sight in the slant plane through the line of sight and through the equipment elevation axis in the horizontal or deck plane. (NOTE: TRAVERSE may also be measured in the slant plane through the line to future target position).

TRIGGER

See Part II.

MIL-STD-1343(NAVY)
1 JULY 1969

TUBE (+) (TORPEDO), ORDER, STOW **K575**

The signal ordering that the particular torpedo tube (or multiple tube mount) be placed in the stowed position.

TUBE (+) (TORPEDO), STATUS, STOW **K670**

The signal indicating that the particular torpedo tube (or multiple tube mount) is in the stowed position.

TUBE (+), TORPEDO, LOADED **K671**

The indication that the particular torpedo tube has been loaded with the particular torpedo as ordered.

TUBE (+), TORPEDO, READY **K672**

The particular torpedo tube and its loaded torpedo is in all respects ready to fire.

TUBE (+), TORPEDO, SELECTED **K673**

The particular torpedo tube has been selected for possible loading or use.

TURN

See Part II.

U

UNASSIGNED

Use AVAILABLE - See Part II.

UNRELIABLE

See Part II.

V

VALID

See Part II.

MIL-STD-1343(NAVY)

1 JULY 1969

VEHICLE (MOTION), (HEIRARCHY)

VEHICLE (MOTION)
 . AIRCRAFT
 . MISSILE
 . OUN SHIP
 . TARGET
 . . E-U
 . . HORIZONTAL
 . . N-S
 . . VECTOR
 . . VERTICAL
 . . . CORRECTED
 . . . COURSE
 . . . DRIFT
 . . . IDENTITY (+)
 . . . SPEED
 . . . TURN

VEHICLE (MOTION), AIRCRAFT, E-W**M837**

The component of VEHICLE (MOTION), AIRCRAFT, HORIZONTAL in the E-U direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), AIRCRAFT, HORIZONTAL**M838**

The projection in the horizontal plane of the aircraft motion vector stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), AIRCRAFT, N-S**M839**

The component of VEHICLE (MOTION), AIRCRAFT, HORIZONTAL in the N-S direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), AIRCRAFT, VECTOR**M840**

The movement of the aircraft along its motion vector relative to its reference frame (i.e., inertial, earth, etc.) stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), AIRCRAFT, VERTICAL**M841**

The projection in the vertical plane of the aircraft motion vector stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTON), (HIERARCHY).

MIL-STD-1343(NAVY)
1 JULY 1969

VEHICLE (MOTION), MISSILE, E-W **M418**

The component of VEHICLE (MOTION), MISSILE, HORIZONTAL in the E-W direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), MISSILE HORIZONTAL **M419**

The projection in the horizontal plane of the missile motion vector stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), MISSILE, N-S **M420**

The component of VEHICLE (MOTION), MISSILE, HORIZONTAL in the N-S direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), MISSILE, VECTOR **M421**

The movement of the missile along its motion vector relative to its reference frame (i.e., inertial, earth, etc.) and stated in linear measure per unit of time. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), MISSILE, VERTICAL **M422**

The projection in the vertical plane of the missile motion vector stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION) OWNERSHIP, E-W **M842**

The component of VEHICLE (MOTION), OWNERSHIP, HORIZONTAL in the L-R direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), OWNERSHIP, HORIZONTAL **M843**

The movement of own ship along its motion vector relative to its reference frame (i.e. earth) stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

MIL-STD-1343(NAVY)

1 JULY 1969

VEHICLE (MOTION), OWNERSHIP, N-S **M844**

The component of VEHICLE (MOTION), OWN SHIP, HORIZONTAL in the N-S direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), TARGET, E-W **M142**

The component of VEHICLE (MOTION), TARGET, HORIZONTAL in the E-W direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), TARGET, HORIZONTAL **M143**

The projection in the horizontal plane of the target motion vector stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), TARGET, N-S **M144**

The component of VEHICLE (MOTION), TARGET, HORIZONTAL in the N-S direction, as generated by a solving device such as a firecontrol computer. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), TARGET, VECTOR **M145**

The movement of the target along its motion vector relative to its reference frame (i.e., earth, inertial, etc.) and stated in linear measure per unit of time. See VEHICLE (MOTION), (HIERARCHY).

VEHICLE (MOTION), TARGET, VERTICAL **M146**

The projection in the vertical plane of the target motion vector stated in linear measure per unit of time (usually in knots). See VEHICLE (MOTION), (HIERARCHY).

VELOCITY, CUTOFF, SET

The signal to the missile designating the velocity relative to the inertial coordinates at which the rocket motor is to cut off.

VELOCITY, INITIAL **Y845**

The velocity of the projectile as it leaves the gun muzzle.

MIL-STD-1343(NAVY)
1 JULY 1969

VOICE

Use AUDIO

W

WARHEAD, WATER ENTRY, COMPUTED, BEARING **B147**

The true bearing from the firing point to the place of entry into the water of the warhead (ASROC) as computed by the firecontrol system.

WARHEAD, WATER ENTRY, COMPUTED, RANGE **R148**

The distance in yards from the firing point to the place of entry into the water of the warhead (ASROC) as computed by the firecontrol system.

WARMUP ORDER, MISSILE (+), (ON) RAIL (+) **Q847**

The signal direction the warmup of the particular missile which has been placed on the designated rail preparatory to possible launching.

WARMUP ORDER, MISSILE (+), (OFF) RAIL (+) **Q846**

The signal directing the warmup of the particular missile which has been placed in the ready position in the loading area or magazine preparatory to loading onto a designated rail.

WARMUP STATUS, MISSILE (+), MAXIMUM INDICATION **Q848**

The indication that the particular missile undergoing warmup has reached a maximum condition; i.e., the missile has been warmed up for the maximum safe time.

WARMUP STATUS, MISSILE (+), (ON) RAIL (+) **Q850**

The indication that the particular missile which has been placed on the designated rail preparatory to possible launching is undergoing warmup.

WARMUP STATUS, MISSILE (+), (OFF) RAIL (+) **Q849**

The indication that the particular missile which has been placed in the ready position in the loading area or magazine preparatory to loading onto the designated rail is undergoing warmup.

MIL-STD-1343(NAVY)
1 JULY 1969

WARMUP STATUS, MISSILE (+), WARNING RAIL (+) Q851

The warning signal that the particular missile which is on the designated rail is undergoing warmup.

WARNING

See Part II.

WIND, DIRECTION, APPARENT W852

The direction of the vector sum of HIND, DIRECTION, OWN SHIP, and MIND, DIRECTION, TRUE, usually expressed in degrees measured clockwise from north. centerline, missile axis, etc.

WIND, DIRECTION, OWN SHIP W853

The direction of the relative horizontal movement of the air mass generated by own ship motion in still air. It is equal and opposite to own ship course, and is expressed in degrees measured clockwise from north.

WIND, DIRECTION, TRUE W854

The direction of the actual movement of the air mass measured with respect to the earth, expressed in degrees measured clockwise from north.

WIND, SPEED, APPARENT W855

The magnitude of the vector sum of WIND, SPEED, OWN SHIP and WIND, SPEED, TRUE, usually expressed in knots.

WIND, SPEED, OWN SHIP W856

The velocity of the relative horizontal movement of the air mass generated by own ship motion in still air. It is equal and opposite to own ship speed vector, and is usually expressed in knots.

WIND, SPEED, TRUE

The actual velocity of the movement of the air mass measured with respect to the earth, usually expressed in knots.

WINDOW

Use CAPTURE. For computed position of capture point use functional terms such as RANGE (TARGET), BEARING (TARGET) and ELEVATION (TARGET).

MIL-STD-1343 (NAVY)
1 JULY 1969

X

X MISSILE (+)

For the functions, modes, indications, etc., use the proper Terms (i.e.) functional, mode, indicating, etc.

X-COORDINATE

See Part II.

Y

Y MISSILE (+)

For the functions, modes, indications, etc., use the proper Terms (i.e.) functional, mode, indicating, etc.

Y-COORDINATE

See Part II.

Z

Z MISSILE (+)

For the functions, modes, indications, etc., use the proper Terms (i.e.) functional, mode, indications, etc.

Z-COORDINATE

See Part II.

ZERO

See Part II.

MIL-STD-1343(NAVY)
1 July 1969

5.2

PART II

Term Modifiers

MIL-STD-1343(NAVY)
1 JULY 1969

DEFINITIONS
of
TERM MODIFIERS

A

ACCEPT	01
Describes a system or equipment which is prepared, or is directed, to accept the function.	
	02
Describes a system or equipment which is, or is directed, to operate in the active mode (i.e.) radiating.	
	03
The function is a warning that a designated situation exists, which is dangerous or otherwise undesirable.	
ALERT	04
The function is a signal to a particular equipment or system to place itself in a ready to operate condition.	
The function specifies vertical height, measured in feet above sea level.	
	06
The function pertains to aircraft targets.	

MIL-STD-1343(NAVY)
1 JULY 1969

APPARENT

07

The value of the function results from sonar observations that have not been corrected for the vagaries of underrater sound propagation.

NOTE: APPARENT is also used in "WIND" terms, but not as a modifier.

APPROXIMATE

86

The value of the function is nearly correct.

ASSISTANCE

08

The function is a digital logic signal from NTDS to the firecontrol computer indicating that range information is available from MTDS. It is used when the radar is in a CCM mode.

09

Describes a system or equipment which is, or is directed to be, in automatic operation.

10

Describes the inventory status of weapons, ammunition, etc., which are available for use, or indicates systems and equipments which are currently unassigned and are available, or indicates types of data that can be provided.

B

BEARING (+)

11

The function specifies the bearing from a reference point to a target or other object. Bearing is measured in the horizontal plane in degrees clockwise from north (BEARING, TRUE) or from own ship centerline (BEARING, RELATIVE).

The function is a signal making the device ineffective for the prescribed blanking interval.

BUSY OWN-CONTROL

13

Describes a system or equipment which is already employed by its own control.

MIL-STD-1343(NAVY)
1 JULY 1969

C

CALIBRATION

The function is intended for calibration purposes.

14

CASUALTY

Describes a system or equipment which is not operating up to its optimum capability.

15

CAUTION

Use WARNING.

COMPENSATION

The function is the correction for inherent errors.

16

The function is generated by a solving device such as a firecontrol computer.

18

The value of the function has been corrected for errors.

19

The function specifies the direction of a vehicle's motion in the horizontal plane, measured in degrees, clockwise from north.

D

DAMPED

Use SMOOTHED.

20

The value of the function is selected from among a group of possible values indicated by a single sensor.

MIL-STD-1343 (NAVY)
1 JULY 1969

DIFFERENCE

Use ERROR.

DIRECTOR (+) 21

The function is generated by, or directed to, a fire-control director. The number, type, etc., of the director should be specified when appropriate.

DISTANCE 22

The function specifies the distance (usually in yards or nautical miles) from a reference point to a target or other object.

DRIFT 23

The function specifies horizontal lateral movement (of a vehicle, missile, projectile, etc.) perpendicular to the motion vector.

E

ECM (+) 24

The function is generated by, or directed to, an ECM system or equipment. The number, type, etc. of the system or equipment should be specified when appropriate.

EMERGENCY 25

The function specifies that immediate action is to be taken to cope with a dangerous or otherwise undesirable situation.

ERROR 26

The function is a repeatback signal whose value indicates the difference between the transmitted signal and the response.

Use ORDER when the repeatback signal is used to initiate corrective action.

BSTIMATED 27

The value of the function is assigned on the basis of best judgment.

MIL-STD-1343(NAVY)
1 JULY 1969

EXCESSIVE

The value of the function is outside the acceptable tolerance limits. **28**

EXCITATION

The function is an electrical power input, usually applied to synchro, potentiometer or networks. **29**

G**GATE**

The function is a timing signal which automatically places the amplitude control in operation at the expected time of signal arrival and thus maintaining stability of target presentation in spite of perturbations of the transmission path; or a timing signal used to control or sequence a certain combination of events such as range counting, synchronizing, blanking, etc. **30**

GO**H****HEADING**

The function specifies the direction of the vehicle centerline, projected in the horizontal plane, measured in degrees, clockwise from the north. **87**

HOLD

The function is a signal to maintain the value of the designated quantity constant during the time that the HOLD signal is applied. **31**

IDD (INTER-DIRECTOR DESIGNATION)

Describes a configuration of equipments in which the target position data is transferred from the director currently tracking the target to one or more other directors. **32**

MIL-STD-1343(NAVY)
1 JULY 1969

IDENTITY (+)	33
<p>The function is a signal which identifies a moving vehicle, or target as (for examples) "friendly aircraft", "target #5", "target of greatest threat".</p>	
INCREMENT	34
<p>The function is an increment between two discrete values of the designated quantity.</p>	
INDICATOR (+)	35
<p>The function is a signal, for visual or aural presentation, that a particular situation exists. Additional information should be provided, where appropriate, to describe the nature of the situation (for exdmples, "ON", "OFF").</p>	
INFRARED (+)	36
<p>The function is generated by, or directed to, an infrared equipment. The number, type, etc. of the infrared equipwent should be specified when appropriate.</p>	
INOPERATIVE	37
<p>Describes a system or equipment uhch is incapable of operation and is out of service.</p>	
INVALID	38
<p>The value of the function is in error to such a degree as to make It musakle.</p>	
L	
LATITUDE	39
<p>The function specifies the angular distance north or south of the earth's equator measured through 90 degrees.</p>	
LAUNCHER (+)	40
<p>The function is generated by, or directed to, a missile launcher. The number, type, etc. of the launcher should be specified when appropriate.</p>	

MIL-STD-1343(NAVY)
1 JULY 1969

LOCAL	41
Describes an equipment which is, or is directed to be, operating in local control.	
LOCKED-ON	42
Describes a system or equipment which is automatically tracking the target in one or more coordinates.	
LONGITUDE	43
The function specifies the angular distance measured through 180 degrees east or west from the Greenwich Meridian.	
LOW-E (MODE)	44
Describes a system (missile firecontrol) operating under conditions where the true elevation of the target is below a predetermined elevation, and the computer will, therefore, hold the director elevation at the Low-E cut-off as long as the situation continues.	

M

MANUAL	45
Describes an equipment which is, or is directed to be, operating under direct control of a human operator.	
	46
The function is a signal to read or record the designated quantity at a particular instant of time.	
The function is a repeatback signal that the designated system or equipment is in the ordered orientation or mode.	
MODIFIED	
Use DESIGNATED.	

MIL-STD-1343(NAVY)
1 JULY 1969

MOUNT (+) 48

The function is generated by, or directed to, a gun mount. The number, type, etc., of the mount should be specified when appropriate.

N

NO-GO

Use NOT READY.

NOT AVAILABLE 49

Describes the inventory status of weapons, ammunition, etc., which are not available for use, or indicates systems and equipments which are currently assigned and are not available, or indicates types of data that can not be provided.

NOT LOCKED-ON

Describes a system or equipment which is not automatically tracking the target in any coordinate, or in the coordinate specified.

NOT READY 51

The value of the function does not now produce a satisfactory solution to the firecontrol problem. NOTE: Usually indicated by the absence of the "READY" signal.

O

Use INDICATION.

ON

Use INDICATION.

OPTICAL (+) 52

The function is generated by, or directed to, an optical equipment. The number, type, etc. of the optical equipment should be specified when appropriate.

MIL-STD-1343(NAVY)
1 JULY 1969

ORDER 53

The function is a computed, repeatback, or operators signal which is used to initiate action to bring the function to the correct or desired value.

Use ERROR when a repeatback signal is not so used.

P

PASSIVE 54

Describes a system or equipment which is, or is directed, to operate in the passive mode (i.e.) listening only.

PULSE 55

The function is a timing or information signal, usually of d repetitive nature.

R

RADAR (+) 56

The function is generated by, or directed to, a RADAR system or equipment. The number, type, etc. of the RADAR should be specified when appropriate.

RANGEFINDER (+)

Use OPTICAL (+).

READY 57

The value of the function now produces a satisfactory solution to the firecontrol problem.

REFERENCE 58

The function specifies the basis for comparison.

RELIABLE 59

The value of the function is sufficiently accurate to yield an acceptable solution to the problem at hand under normal conditions.

MIL-STD-1343(NAVY)
1 JULY 1969

REMOTE	60
Describes a system or equipment which is, or is directed to be, operating under remote control.	
REQUEST	61
The function is a request for the designated information.	
RESET	62
The function is a signal from a source external to the equipment to guide the equipment to the desired position, or to inject the desired value of a function.	
RESPONSE	63
The function is an indication of the degree of compliance which a system or equipment has achieved in response to an order.	

S

SAMPLE	64
The function is a sample value for monitoring purposes.	
SELECTED	65
The value of the function is selected from among two or more possible values indicated by two or more sensors.	
	66
The function pertains to a simulated target or to fictitious values which are assumed, usually for training or test purposes.	
SLEW	67
The function is a signal which orders a maximum update or response of the designated equipment, usually in order to transfer from one target to another.	

MIL-STD-1343(NAVY)
1 JULY 1969

SMOOTHED	68
The value of the function has been smoothed, damped, or averaged, usually by passage through an electronic or hydraulic device.	
SONAR (+)	69
The function is generated by, or directed to, a SONAR system or equipment. The number, type, etc. of the SONAR should be specified when appropriate.	
SPEED	70
The function specifies the rate of translation of a vehicle along its motion vector.	
STANDBY	
Use ALERT.	
START	71
The function is a signal which causes the designated equipment to commence "function" activity.	
STOP	72
The function is a signal which causes the designated equipment to cease "function" activity.	
SURFACE	73
The function pertains to surface targets (land or sea) .	
	74
Describes a system or equipment that is in correct correlation with a transmitted quantity.	
T	
TELEVISION	75
The function is generated by, or directed to, a television camera or a television receiver.	

MIL-STD-1343(NAVY)
1 JULY 1969

TEST 76

Describes a system or equipment which is, or is directed to be, undergoing test. The type of test, such as end-around, system self test, etc., may be specified.

TRIGGER 77

The function is a signal to initiate an event or sequence of events.

TURN 78

The function specifies the change in heading of a vehicle, measured right or left in degrees in the horizontal plane.

U

Use AVAILABLE.

UNRELIABLE 79

The value of the function is of doubtful accuracy and will not yield an acceptable solution to the problem at hand under normal conditions.

V

VALID 80

The value of the function is correct, and it is therefore useable.

W

The function is a signal that a designated action is pending, as, for example, that the missile RADAR identification code is about to be changed. Use ALARM when a critical, dangerous, or otherwise undesirable situation exists.

MIL-STD-1343(NAVY)
1 JULY 1969

X

X-COORDINATE

82

The function specifies the X component of the distance from a reference point to a target or other object. The X coordinate is in the east-west direction, positive toward east.

Y

Y-COORDINATE

83

The function specifies the Y component of the distance from a reference point to a target or other object. The Y coordinate is in the north-south direction, positive toward north.

Z

Z-COORDINATE

84

The function specifies the Z component of the distance from a reference point to a target or other object. The Z coordinate is in the vertical direction, positive upward.

ZERO

85

The function specifies the zero reference value or location from which subsequent values of the function will be measured.

MIL-STD-1343(NAVY)
1 July 1969

5.3

PART III

Key Word Index

MIL-STD-1343(NAVY)
1 JULY 1969

KEY WORD INDEX
of
ELECTRONIC & WEAPONS CONTROL
INTERFACE FUNCTION TERMS
(Naval Ship Combat Systems)

A

A	MISSILE (+), HEAD-ORDER, A
ABORT	ABORT
AC (+)	POWER (ELECTRIC), REFERENCE, AC (+)
AC (+)	POWER (ELECTRIC), SHIP-SERVICE, AC (+)
ACCEPT	ACCEPT
ACQUISITION	CAPTURE, MISSILE (+), ACQUISITION
ACTIVE	ACTIVE
ACTIVE	HOMING (MISSILE (+)), ACTIVE, ORDER
ACTUAL	ELEVATION (EQUIPMENT), ACTUAL, CORRECTED
ACTUAL	ELEVATION (EQUIPMENT), ACTUAL, ERROR
ACTUAL	ELEVATION (EQUIPMENT), ACTUAL, ORDER
ACTUAL	ELEVATION (EQUIPMENT), ACTUAL, UNCORRECTED
ACTUAL	TRAIN (EQUIPMENT), RELATIVE, ACTUAL
ACTUAL	TRAIN (EQUIPMENT), TRUE, ACTUAL
ADVANCE	TORPEDO, ADVANCE, COMPUTED
AIM	AIM POINT
AIR	AIR READY
AIR	DENSITY, AIR
AIR	TEMPERATURE, AIR
AIRCRAFT	VEHICLE (MOTION), AIRCRAFT, E-W
AIRCRAFT	VEHICLE (MOTION), AIRCRAFT, HORIZONTAL
AIRCRAFT	VEHICLE (MOTION), AIRCRAFT, N-S
AIRCRAFT	VEHICLE (MOTION), AIRCRAFT, VECTOR
AIRCRAFT	VEHICLE (MOTION), AIRCRAFT, VERTICAL
ALARM	ALARM
ALARM	MISSILE (+), (ON) RAIL (+), ALARM
ALARM	OVERTEMPERATURE ALARM SUPPLY
ALERT	ALERT
ALERT	COAST, RADAR (+), ALERT
ALERT	DECOY, ECM, ALERT
ALERT	JAMMING, ECM (+), ALERT
ALERT	JAMMING, RADAR (+), ALERT
ALERT	MOUNT (GUN) (+), ALERT
ALTITUDE	ALTITUDE
AMMUNITION (GUN) (+)	AMMUNITION (GUN) (+), AVAILABLE
AMMUNITION (GUN) (+)	AMMUNITION (GUN) (+), SELECTED
ANGLE	LOW ANGLE
ANGLE	SIGHT ANGLE

MIL-STD-1343(NAVY)
1 JULY 1969

ANTI-AIRCRAFT	ANTI-AIRCRAFT
APPARENT	APPARENT
APPARENT	BEARING (TARGET), RELATIVE, APPARENT
APPARENT	BEARING (TARGET), TRUE, APPARENT
APPARENT	BEARING RATE, APPARENT, OBSERVED
APPARENT	ELEVATION (TARGET) APPARENT, CORRECTED
APPARENT	ELEVATION (TARGET), APPARENT, UNCORRECTED
APPARENT	ELEVATION RATE, APPARENT, OBSERVED
APPARENT	RANGE (TARGET), APPARENT, OBSERVED
APPARENT	RANGE RATE, APPARENT, OBSERVED
APPARENT	WIND, DIRECTION, APPARENT
APPARENT	WIND, SPEED, APPARENT
APPROVED	DEPTH CHARGE (+), APPROVED
APPROVED	TORPEDO (+), APPROVED
APPROXIMATE	APPROXIMATE
ARCS	ARCS, (OF) FIRE
ARM	FUZE (+), ORDER, ARM
ARROW CONTROL	ARROW CONTROL, FCS (+), TARGET (+)
ASROC	ASROC
(IN) ASSEMBLY AREA	MISSILE (+), (IN) ASSEMBLY AREA
ASSIGN	ASSIGN
ASSISTANCE	ASSISTANCE
ATTACK (SEQUENCE)	SONAR (+), ORDER, ATTACK (SEQUENCE)
ATTACK (SEQUENCE)	SONAR (+), STATUS, ATTACK (SEQUENCE)
ATTITUDE	ATTITUDE, HEADING, OWNERSHIP
ATTITUDE	ATTITUDE, PITCH, MISSILE
ATTITUDE	ATTITUDE, PITCH, OWNERSHIP
ATTITUDE	ATTITUDE, ROLL, MISSILE
ATTITUDE	ATTITUDE, ROLL, OWNERSHIP
ATTITUDE	ATTITUDE, YAW, MISSILE
ATTITUDE	ATTITUDE, YAW, OWNERSHIP
ATTITUDE	ATTITUDE, (HIERARCHY)
AUDIO	INTELLIGENCE, KC, AUDIO
AUDIO	INTELLIGENCE, RADIO, AUDIO
AUDIO	INTELLIGENCE, SONAR, AUDIO
AUTOMATIC	AUTOMATIC
AVAILABLE	AMMUNITION (GUN) (+), AVAILABLE
AVAILABLE	AVAILABLE
AVAILABLE	DEPTH CHARGE (+), AVAILABLE
AVAILABLE	MISSILE (+), AVAILABLE
AVAILABLE	NOT AVAILABLE
AVAILABLE	TORPEDO (+), AVAILABLE
AZIMUTH	AZIMUTH

B

B	MISSILE (+), HEAD-ORDER, B
BARRAGE (JAMMING)	INTELLIGENCE, ECM, BARRAGE (JAMMING)
BATTLE SHORT (+)	BATTLE SHORT (+), indication
BATTLE SHORT (+)	BATTLE SHORT (+), ORDER
BEACON	BEACON, MISSILE

MIL-STD-1343(NAVY)
1 JULY 1969

BEAM (PROGRAM)	RADAR (+), ORDER, BEAM (PROGRAM)
BEAM (PROGRAM)	RADAR (+), STATUS, BEAM (PROGRAM)
BEAM (SHAPE)	RADAR (+), ORDER, BEAM (SHAPE)
BEAM (SHAPE)	RADAR (+), STATUS, BEAM (SHAPE)
BEAM (SHAPE)	RADAR (+), ORDER, BEAM (SPREAD)
BEAM (SPREAD)	RADAR (+), STATUS, BEAM (SPREAD)
BEARING	BEARING, COSRO, REFERENCE
BEARING	SPOT, BEARING, LEFT
BEARING	SPOT, BEARING, RIGHT
BEARING	WARHEAD, WATER ENTRY, COMPUTED, BEARING
BEARING (+)	BEARING (+)
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), RELATIVE, CORRECTED
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), RELATIVE, ERROR
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), RELATIVE, ORDER
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), RELATIVE, STABILIZED
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), RELATIVE, UNCORRECTED)
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), TRUE, CORRECTED
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), TRUE, ERROR
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), TRUE, ORDER
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), TRUE, STABILIZED
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), TRUE, UNCORRECTED
BEARING (EQUIPMENT)	BEARING (EQUIPMENT), (HIERARCHY)
BEARING (TARGET)	BEARING (TARGET), RELATIVE, APPARENT
BEARING (TARGET)	BEARING (TARGET), RELATIVE, COMPUTED
BEARING (TARGET)	BEARING (TARGET), RELATIVE, OBSERVED
BEARING (TARGET)	BEARING (TARGET), RELATIVE, STABILIZED
BEARING (TARGET)	BEARING (TARGET), TRUE, APPARENT
BEARING (TARGET)	BEARING (TARGET), TRUE, COMPUTED
BEARING (TARGET)	BEARING (TARGET), TRUE, OBSERVED
BEARING (TARGET)	BEARING (TARGET), TRUE, STABILIZED
BEARING (TARGET)	BEARING (TARGET), (HIERARCHY)
BEARING (TRUE)	BOOSTER SPLASH, COMPUTED, BEARING (TRUE)
BEARING RATE	BEARING RATE, APPARENT, OBSERVED
BEARING RATE	BEARING RATE, LOS, COMPUTED
BEARING RATE	BEARING RATE, LOS, CORRECTED
BEARING RATE	BEARING RATE, LOS, OBSERVED
BEARING RATE	BEARING RATE, (HIERARCHY)
BLANKING	BLANKING
BLANKING PULSE	MASTER SYNCHRONIZER, ORDER, BLANKING PULSE
BLIND ZONE	BLIND ZONE, LAUNCHER (+), NARROW
BLIND ZONE	BLIND ZONE, LAUNCHER (+), WIDE
BLIND ZONE	BLIND ZONE, RADAR (+), NARROW
BLIND ZONE	BLIND ZONE, RADAR (+), WIDE
BOOSTER (MISSILE)	BOOSTER (MISSILE), SEPARATION, INDICATION
BOOSTER SPLASH	BOOSTER SPLASH, COMPUTED, BEARING (TRUE)
BOOSTER SPLASH	BOOSTER SPLASH, COMPUTED, E-W
BOOSTER SPLASH	BOOSTER SPLASH, COMPUTED, N-S
BOOSTER SPLASH	BOOSTER SPLASH, COMPUTED, RANGE
BOTTOM (BOUNCE)	INTELLIGENCE, SONAR, BOTTOM (BOUNCE)
BREAK	BREAK, TRACK (+)
BREECH	MOUNT (GUN) (+), UNLOAD, BREECH
BURST OBSERVED	MISSILE (+), BURST OBSERVED
BUSY	BUSY, OWN-CONTROL

MIL-STD-1343(NAVY)
1 JULY 1969

COMPUTED	RANGE (TARGET), N-S, COMPUTED
COMPUTED	RANGE RATE, E-M, COMPUTED
COMPUTED	RANGE RATE, HORIZONTAL, COMPUTED
COMPUTED	RANGE RATE, LOS, COMPUTED
COMPUTED	RANGE RATE, N-S, COMPUTED
COMPUTED	TORPEDO, ADVANCE, COMPUTED
COMPUTED	WARHEAD, WATER ENTRY, COMPUTED, BEARING
COMPUTED	WARHEAD, WATER ENTRY, COMPUTED, RANGE
CONDITION	DOOR, CONDITION
CONTACT	RADAR (+), ORDER, CONTACT
CONTACT	RADAR (+), STATUS, CONTACT
CONTACT	SONAR (+), ORDER, CONTACT
CONTACT	SONAR (+), STATUS, CONTACT
CONTINUOUS	LOAD ORDER, MISSILE (+), CONTINUOUS
CONTINUOUS-WAVE	CONTINUOUS-WAVE ILLUMINATION
CONTROL	EQUIPMENT (+) (SITUATION), ORDER, CONTROL
CONTROL	EQUIPMENT (+) (SITUATION), STATUS, CONTROL
(IN) CONTROL	MASTER SYNCHRONIZER, STATUS, (IN) CONTROL
COOLANT (STATUS)	COOLANT (STATUS), FLOW
COOLANT (STATUS)	COOLANT (STATUS), LEVEL
COOLANT (STATUS)	COOLANT (STATUS), PRESSURE
COOLANT (STATUS)	COOLANT (STATUS), RESISTIVITY
COOLANT (STATUS)	COOLANT (STATUS), TEMPERATURE
CORRECTED	BEARING (EQUIPMENT), RELATIVE, CORRECTED
CORRECTED	BEARING (EQUIPMENT), TRUE, CORRECTED
CORRECTED	BEARING RATE, LOS, CORRECTED
CORRECTED	CORRECTED
CORRECTED	ELEVATION (EQUIPMENT), ACTUAL, CORRECTED
CORRECTED	ELEVATION (TARGET), APPARENT, CORRECTED
CORRECTED	ELEVATION (TARGET), LOS, CORRECTED
CORRECTED	ELEVATION RATE, LOS, CORRECTED
CORRECTED	RANGE (TARGET), E-W, CORRECTED
CORRECTED	RANGE (TARGET), HORIZONTAL, CORRECTED
CORRECTED	RANGE (TARGET), LOS, CORRECTED
CORRECTED	RANGE (TARGET), N-S, CORRECTED
CORRECTED	RANGE RATE, E-W, CORRECTED
CORRECTED	RANGE RATE, HORIZONTAL, CORRECTED
CORRECTED	RANGE RATE, LOS, CORRECTED
CORRECTED	RANGE RATE, N-S, CORRECTED
COSRO	BEARING, COSRO, REFERENCE
COSRO	ELEVATION, COSRO, REFERENCE
COURSE	COURSE
COURSE	OWNSHIP COURSE
COURSE	TORPEDO, COURSE, INDICATION
CROSS	CROSS LEVEL
CURSORS	CURSOR, EQUIPMENT (+), DISPLAY
CUTOFF	VELOCITY, CUTOFF, SET
CUTOUT	FIRING CUTOUT
CW	INTELLIGENCE, RADIO, CW
CW	INTELLIGENCE, SONAR, CW
CWI	RADAR (+), ORDER, CWI
CWI	RADAR (+), STATUS, CWI
CWI (CONTINUOUS WAVE	INTELLIGENCE, ECM, CWI (CONTINUOUS WAVE ILLUMINATION)

MIL-STD-1343(NAVY)
1 JULY 1969

D

DAMPED	DAMPED
DC (+)	POWER (ELECTRIC), REFERENCE, DC (+)
DC (+)	POWER (ELECTRIC), SHIP-SERVICE, DC (+)
DC PULSED	CODED TIME, MISSILE (+), DC PULSED
DDSOT	DDSOT
DEAD	DEAD TIME
DECOY	DECOY, ECM, ALERT
DECOY	DECOY, ECM, ORDER
DEFLECTION	SIGHT DEFLECTION
DENSITY	DENSITY, AIR
DEPRESSION	DEPRESSION
DEPTH	DEPTH
DEPTH	TORPEDO, DEPTH, ORDER
DEPTH CHARGE (+)	DEPTH CHARGE (+), APPROVED
DEPTH CHARGE (+)	DEPTH CHARGE (+), AVAILABLE
DEPTH CHARGE (+)	DEPTH CHARGE (+), FIRE, PERMISSION
DEPTH CHARGE (+)	DEPTH CHARGE (+), READY, (TO) FIRE
DEPTH CHARGE (+)	DEPTH CHARGE (+), SELECTED
DESIGNAIE	DESIGNATE, EQUIPMENT (+), (TO) FCS (+)
DESIGNATE	DESIGNATE, EQUIPMENT (+), (TO) WEAPON (+)
DESIGNATE	DESIGNATE, FCS (+), (TO) EQUIPMENT (+)
DESIGNATE	DESIGNATE, FCS (+), (TO) FCS (+)
DESIGNATE	DESIGNATE, FCS (+), (TO) WEAPON (+)
DESIGNATE	DESIGNATE, WEAPON (+), (TO) EQUIPMENT (+)
DESIGNATE	DESIGNATE, WEAPON (+), (TO) FCS (+)
DESIGNATE	DESIGNATE, (HIERARCHY)
DESIGNATED	DESIGNATED
DESIGNATION)	IDD (INTER-DIRECTOR DESIGNATION)
DESTRUCT (MISSILE)	DESTRUCT (MISSILE), ORDER
DETONATE	DETONATE, WEAPON (+), ORDER
DIFFERENCE	DIFFERENCE
DIGITAL	INTELLIGENCE, NTDS, DIGITAL
DIRECTION	WIND, DIRECTION, APPARENT
DIRECTION	WIND, DIRECTION, OWNERSHIP
DIRECTION	WIND, DIRECTION, TRUE
DIRECTIONFINDER	INTELLIGENCE, RADIO, DIRECTIONFINDER
DIRECTOR (+)	DIRECTOR (+)
DISPLAY	CURSOR, EQUIPMENT (+), DISPLAY
DISTANCE	DISTANCE
DOOR	CLOSED DOOR
DOOR	DOOR, CONDITION
DOOR	OPEN DOOR
DOPPLER	DOPPLER FREQUENCY
DOWN	SPOT, ELEVATION, DOWN
DRIFT	DRIFT
DROP	DROP, TRACK (+)
DUD	TORPEDO (+), DUD, (IN) TUBE
DUD	MISSILE (+), DUD, (ON) RAIL (+)

MIL-STD-1343(NAVY)
1 JULY 1969

DWELL TIME

DWELL TIME, SONAR (+)

E

E-W		BOOSTER SPLASH, COMPUTED, E-W
E-W		RANGE (TARGET), E-W, COMPUTED
E-W		RANGE (TARGET), E-W, CORRECTED
E-W		RANGE RATE, E-W, COMPUTED
E-W		RANGE RATE, E-U, CORRECTED
E-W		VEHICLE (MOTION), AIRCRAFT, E-W
E-W		VEHICLE (MOTION), MISSILE, E-W
E-W		VEHICLE (MOTION), OWNERSHIP, E-W
E-W		VEHICLE (MOTION), TARGET, E-W
ECM		DECOY, ECM, ALERT
ECM		DECOY, ECM, ORDER
ECM		INTELLIGENCE, ECM, BARRAGE (JAMMING)
ECM		INTELLIGENCE, ECM, COHERENT
ECM		INTELLIGENCE, ECM, CWI (CONTINUOUS WAVE ILLUMINATE
ECM		INTELLIGENCE, ECM, NOISE
ECM		INTELLIGENCE, ECM, PULSE
ECM		INTELLIGENCE, ECM, SPOT (JAMMING)
ECM		INTELLIGENCE, ECM, VIDEO
ECM		JAMMING, ECM, WARNING
ECM (+)		ECM (+)
ECM (+)		JAMMING, ECM (+), ALERT
ECM (+)		JAMMING, ECM (+), INHIBIT
ECM (+)		JAMMING, ECM (+), READY
ECM (+)		JAMMING, ECM (+), REQUEST
ECM (+)		JAMMING, ECM (+), START
ECM (+)		JAMMING, ECM (+), STOP
ELEVATION		ELEVATION, COSMO, REFERENCE
ELEVATION		PARALLAX (UNIT), ELEVATION, EQUIPMENT (+)
ELEVATION		SPOT, ELEVATION, DOWN
ELEVATION		SPOT, ELEVATION, UP
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), (HIERARCHY)
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), ACTUAL, CORRECTED
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), ACTUAL, ERROR
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), ACTUAL, ORDER
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), ACTUAL, UNCORRECTED
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), STABILIZED, COMPUTED
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), STABILIZED, ERROR
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), STABILIZED, ORDER
ELEVATION	(EQUIPMENT	ELEVATION (EQUIPMENT), STABILIZED, UNCORRECTED
ELEVATION	(TARGET)	ELEVATION (TARGET), APPARENT, CORRECTED
ELEVATION	(TARGET)	ELEVATION (TARGET), APPARENT, UNCORRECTED
ELEVATION	(TARGET)	ELEVATION (TARGET), LOS, COMPUTED
ELEVATION	(TARGET)	ELEVATION (TARGET), LOS, CORRECTED
ELEVATION	(TARGET)	ELEVATION (TARGET), LOS, UNCORRECTED
ELEVATION	(TARGET)	ELEVATION (TARGET), (HIERARCHY)
ELEVATION	RATE	ELEVATION RATE, APPARENT, OBSERVED
ELEVATION	RATE	ELEVATION RATE, LOS, COMPUTED

MIL-STD-1343(NAVY)
1 JULY 1969

ELEVATION RATE	ELEVATION RATE, LOS, CORRECTED
ELEVATION RATE	ELEVATION RATE, LOS, OBSERVED
ELEVATION RATE	ELEVATION RATE, VERTICAL, COMPUTED
ELEVATION BATE	ELEVATION RATE, (HIERARCHY)
EMERGENCY	EMERGENCY
EMPTY	RAIL (+) (MISSILE), STATUS, EMPTY
ENABLE	ENABLE
END	TORPEDO, RUN, END
ENERGIZE	MASTER SYNCHRONIZER, ORDER, ENERGIZE
ENGLISH BIAS	MISSILE (+), ENGLISH BIAS, ORDER
ENTRY	TARGET (+), ENTRY
EQUIPMENT (+)	CURSOR, EQUIPMENT (+), DISPLAY
EQUIPMENT (+)	IFF (SIGNAL), RF, EQUIPMENT (+)
EQUIPMENT (+)	IFF (SIGNAL), SIF, EQUIPMENT (+)
EQUIPMENT (+)	IFF (SIGNAL), TEST, EQUIPMENT (+)
EQUIPMENT (+)	IFF (SIGNAL), TRIGGER, EQUIPMENT (+)
EQUIPMENT (+)	IFF (SIGNAL), VIDEO, EQUIPMENT (+)
EQUIPMENT (+)	MODE (FCS), ORDER, EQUIPMENT (+)
EQUIPMENT (+)	MODE (FCS), STATUS, EQUIPMENT (+)
EQUIPMENT (+)	PARALLAX (UNIT), ELEVATION, EQUIPMENT (+)
EQUIPMENT (+)	PARALLAX (UNIT), TRAIN, EQUIPMENT (+)
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), (HIERARCHY)
EQUIPMENT' (+) (SITUA	EQUIPMENT (+) (SITUATION), ORDER, BUSY-TIME
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), ORDER, CONTROL
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), ORDER, GYRO
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), ORDER, POWER
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), ORDER, TEST
EQUIPMENT' (+) (SITUA	EQUIPMENT (+) (SITUATION), STATUS, BUSY-TIME
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), STATUS, CONTROL
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), STATUS, GYRO
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), STATUS, POUER
EQUIPMENT (+) (SITUA	EQUIPMENT (+) (SITUATION), STATUS, TEST
EQUIPMENT (+)	DESIGNATE, EQUIPMENT (+), (TO) FCS (+)
EQUIPMENT (+)	DESIGNATE, EQUIPMENT (+), (TO) WEAPON (+)
ERROR	BEARING (EQUIPMENT), RELATIVE, ERROR
ERROR	BEARING (EQUIPMENT), TRUE, ERROR
ERROR	ELEVATION (EQUIPMENT), ACTUAL, ERROR
ERROR	ELEVATION (EQUIPMENT), STABILIZED, ERROR
ERROR	ERROR
ERROR	TRAIN (EQUIPMENT), RELATIVE, ERROR
ERROR	TRAIN (EQUIPMENT), TRUE, ERROR
ESTIMATED	ESTIMATED
EXCESSIVE	EXCESSIVE
EXCITATION	EXCITATION
EXTEND	RAIL (+) (MISSILE), ORDER, EXTEND
EXTENDED	RAIL (+) (MISSILE), STATUS, EXTENDED

F

FACSIMILE
PCS (+)

INTELLIGENCE, RADIO, FACSIMILE
ARROW CONTROL, FCS (+), TARGET (+)

FCS (+)	MODE (FCS), ORDER, FCS (+)
FCS (+)	MODE (FCS), STATUS, PCS (+)
FCS (+)	DESIGNATE, FCS (+), (TO) EQUIPMENT (+)
FCS (+)	DESIGNATE, FCS (+), (TO) FCS (+)
FCS (+)	DESIGNATE, FCS (+), (TO) WEAPON (+)
(OF) FIRE	ARCS, (OF) FIRE
FIRE	DEPTH CHARGE (+), FIRE, PERMISSION
(TO) FIRE	DEPTH CHARGE (+), READY, (TO) FIRE
FIRE	FIRE
FIRE	MOUNT (GUN) (+), FIRE
FIRE	TORPEDO (+), FIRE, ORDER
FIRE	TORPEDO (+), FIRE, PERMISSION
(TO) FIRE	TORPEDO (+), READY, (TO) FIRE
FIRE	MOUNT (GUN) (+), FIRED
FIRE	TORPEDO (+), FIRED, INDICATION
FIRING	FIRING CUTOFF
FIRING CUTOFF	FIRING CUTOFF, LIMITS, MOUNT (+)
(OF) FLIGHT	TIME, (OF) FLIGHT, (TO) CAPTURE
(OF) FLIGHT	TIME, (OF) FLIGHT, (TO) FUZE BURST
(OF) FLIGHT	TIME, (OF) FLIGHT, (TO) INTERCEPT
(OF) FLIGHT	TIME, (OF) FLIGHT, (TO) SEPARATION
(OF) FLIGHT	TIME, (OF) FLIGHT, (TO) TARGET
FLOW	COOLANT (STATUS), FLOW
FM	CODED TIME, MISSILE (+), FM
FREQUENCY	DOPPLER FREQUENCY
FREQUENCY	RADIO (+), ORDER, FREQUENCY
FREQUENCY	RADIO (+), STATUS, FREQUENCY
FREQUENCY (STANDARD)	INTELLIGENCE, RADIO, FREQUENCY (STANDARD)
FUNCTIONAL	POWER (ELECTRIC), FUNCTIONAL
FUZE (+)	FUZE (+), ORDER, ARM
FUZE (+)	FUZE (+), ORDER, SET
(TO) FUZE BURST	TIME, (OF) FLIGHT, (TO) FUZE BURST

G

GAIN	INVERSE GAIN ORDER
GATE	GATE
GENERATED	GENERATED
GO	GO
GRAVITY BIAS	MISSILE (+), GRAVITY BIAS, SELECT
GRID ORIGIN	POSITION, OWNERSHIP, GRID ORIGIN
GRID ORIGIN	POSITION, TARGET, GRID ORIGIN
GUIDANCE (MISSILE)	GUIDANCE (MISSILE)
GUN	GUN MOUNT
GUN (+)	ROUNDS (FIRED), NUMBER (OF), GUN (+)
GUN TRAIN-ORDER	GUN TRAIN-ORDER, RELATIVE
GUN TRAIN-ORDER	GUN TRAIN-ORDER, TRUE
GYRO	EQUIPMENT (+) (SITUATION), ORDER, GYRO
GYRO	EQUIPMENT (+) (SITUATION), STATUS, GYRO
GYRO (+)	GYRO (+), CAGE, ORDER
GYRO (+)	GYRO (+), CAGED, INDICATION

MIL-STD-1343(NAVY)
1 JULY 1969

GYRO (+)
GYRO (+)
GYRO ANGLE

GYRO (+), UNCAGE, ORDER
GYRO (+), UNCAGED, INDICATION
TORPEDO, GYRO ANGLE, ORDER

H

HEAD-ORDER
HEAD-ORDER
HEADING
HEADING
HEDGEHOG
HEIGHT
HIGH-BAND
HOLD
HOLD
HOMING
HOMING (MISSILE (+))
HOMING (MISSILE (+))
HOOK-AND-MARK
HORIZONTAL
HORIZONTAL
HORIZONTAL
HORIZCN'IAL
HORIZONTAL
HORIZONTAL
HORIZCNAL
HORIZONTAL

MISSILE (+), HEAD-ORDER, A
MISSILE (+), HEAD-ORDER, E
ATTITUDE, HEALING, OUNSHIP
HEADING
HEDGEHOG
HEIGHT
JAMMING, HIGH-BAND, CLEAR
HOLD
HOLD
HOMING, SEMI-ACTIVE
HOMING (MISSILE (+)), ACTIVE, ORDER
HOMING (MISSILE (+)), PASSIVE, ORDER
HOOK-AND-MARK
RANGE (TARGET), HORIZONTAL, COMPUTED
RANGE (TARGET), HORIZONTAL, CORRECTED
RANGE RATE, HORIZONTAL, COMPUTED
RANGE RATE, HORIZONTAL, CORRECTED
VEHICLE (MOTION), AIRCRAFT, HORIZONTAL
VEHICLE (MOTION), MISSILE, HORIZONTAL
VEHICLE (MOTION), OWNERSHIP, HORIZONTAL
VEHICLE (MOTION), TARGET, HORIZONTAL

I

IC
IC
IDD (INTER-DIRECTOR
IDENTITY
IFF (SIGNAL)
IFF (SIGNAL)
IFF (SIGNAL)
IFF (SIGNAL)
IFF (SIGNAL)
IFF (SIGNAL)
IG (&)
ILLUMINATION
ILLUMINATOR
IN
INCOMING/OUTGOING
INCREMENT
INDICATING
INDICATING
INDICATION
INDICATION
INDICATION

INTELLIGENCE, IC, AUDIO
INTELLIGENCE, IC, INDICATING
IDD (INTER-DIRECTOR DESIGNATION)
IDENTITY
IFF (SIGNAL), RF, EQUIPMENT (+)
IFF (SIGNAL), SIP, EQUIPMENT (+)
IFF (SIGNAL), TEST, EQUIPMENT (+)
IFF (SIGNAL), TRIGGER, EQUIPMENT (+)
IFF (SIGNAL), VIDEO, EQUIPMENT (+)
IG (&) RGPO
CONTINUOUS-WAVE ILLUMINATION
ILLUMINATOR
SPOT, RANGE, IN
MISSILE (+), INCOMING/OUTGOING, SELECT
INCREMENT
INTELLIGENCE, IC, INDICATING
POWER (ELECTRIC), INDICATING
BATTLE SHORT (+), INDICATION
BOOSTER (MISSILE), SEPARATION, INDICATION
GYRO (+), CAGED, INDICATION

MIL-STD-1343(NAVY)

1 JULY 1969

INDICATION	GYRO (+), UNCAGED, INDICATION
INDICATION	TARGET (+), INDICATION
INDICATION	TORPEDO (+), FIRED, INDICATION
INDICATION	TORPEDO, COURSE, INDICATION
INDICATION (+)	INDICATION (+)
INFRARED	INFRARED
INHIBIT	JAMMING, ECM (+), INHIBIT
INITIAL	VELOCITY, INITIAL
INOPERATIVE	INOPERATIVE
INTELLIGENCE	INTELLIGENCE, ECM, BARRAGE (JAMMING)
INTELLIGENCE	INTELLIGENCE, ECM, COHERENT
INTELLIGENCE	INTELLIGENCE, ECM, CWI (CONTINUOUS WAVE ILLUMINATE
INTELLIGENCE	INTELLIGENCE, ECM, NOISE
INTELLIGENCE	INTELLIGENCE, ECM, PULSE
INTELLIGENCE	INTELLIGENCE, ECM, SPOT (JAMMING)
INTELLIGENCE	INTELLIGENCE, ECM, VIDEO
INTELLIGENCE	INTELLIGENCE, IC, AUDIO
INTELLIGENCE	INTELLIGENCE, IC, INDICATING
INTELLIGENCE	INTELLIGENCE, NTDS, DIGITAL
INTELLIGENCE	INTELLIGENCE, RADAR, MTI
INTELLIGENCE	INTELLIGENCE, RADAR, RETURN
INTELLIGENCE	INTELLIGENCE, RADAR, VIDEO
INTELLIGENCE	INTELLIGENCE, RADIO, AUDIO
INTELLIGENCE	INTELLIGENCE, RADIO, CR
INTELLIGENCE	INTELLIGENCE, RADIO, DIRECTIONFINDER
INTELLIGENCE	INTELLIGENCE, RADIO, FACSIMILE
INTELLIGENCE	INTELLIGENCE, RADIO, FREQUENCY (STANDARD)
INTELLIGENCE	INTELLIGENCE, RADIO, TELEMETRY
INTELLIGENCE	INTELLIGENCE, RADIO, TELETYPE
INTELLIGENCE	INTELLIGENCE, RADIO, VIDEO
INTELLIGENCE	INTELLIGENCE, SONAR, AUDIO
INTELLIGENCE	INTELLIGENCE, SONAR, BOTTOM (BOUNCE)
INTELLIGENCE	INTELLIGENCE, SONAR, CW
INTELLIGENCE	INTELLIGENCE, SONAR, RETURN
INTELLIGENCE	INTELLIGENCE, SONAR, VIDEO
INTELLIGENCE	INTELLIGENCE, (HIERARCHY)
INTENT (TO)	MISSILE (+), LAUNCH, INTENT (TO)
(TO) INTERCEPT	TIME, (OF) FLIGHT, (TO) INTERCEPT
INVALID	INVALID
INVERSE	INVERSE GAIN ORDER

J

JAMMING	JAMMING, ECM (+), ALERT
JAMMING	JAMMING, ECM (+), INHIBIT
JAMMING	JAMMING, ECM (+), READY
JAMMING	JAMMING, ECM (+), REQUEST
JAMMING	JAMMING, ECM (+), START
JAMMING	JAMMING, ECM (+), STOP
JAMMING	JAMMING, ECM, WARNING
JAMMING	JAMMING, HIGH-BAND, CLEAR

MIL-STD-1343(NAVY)
1 JULY 1969

JAMMING
JAMMING
JETTISON
JETTISON

JAMMING, LOW-BAND, CLEAR
JAMMING, RADAR (+), ALERT
TORPEDO (+), JETTISON, ORDER
MISSILE (+), JETTISON, (FROM) RAIL (+)

K

KILL

TARGET (+), KILL

L

L TRAJECTORY
L TRAJECTORY
LATITUDE
LAUNCH
LAUNCH
LAUNCHED
LAUNCHER (+)
LAUNCHER (+)
LAUNCHER (+)
LAUNCHER (+)
LAUNCHER (+) (MISSIL
LAUNCHER (+) (MISSIL
LAUNCHER TRAIN-ORDER
LAUNCHER TRAIN-ORDER
LEFT
LEVEL
LEVEL
LEVEL
LIMITS
LOAD
LOAD
(TO) LOAD
LOAD ORDER
LOAD ORDER
LOAD ORDER
LOAD ORDER
LOAD
LOADED
LOADED
LOADED
LOADED
LOADED
LOCAL
LOCKED-ON
LOCKED-ON
LONGITUDE
LOS
LOS

L TRAJECTORY, ORDER
L TRAJECTORY, STATUS
LATITUDE
MISSILE (+), LAUNCH
MISSILE (+), LAUNCH, INTENT (TO)
MISSILE (+), LAUNCHED, (FROM) RAIL (+)
BLIND ZONE, LAUNCHER (+), NARROW
BLIND ZONE, LAUNCHER (+), WIDE
LAUNCHER (+)
MIXED LOAD, LAUNCHER (+)
LAUNCHER (+) (MISSILE), ORDER, STOW
LAUNCHER (+) (MISSILE), STATUS, STOW
LAUNCHER TRAIN-ORDER, RELATIVE
LAUNCHER TRAIN-ORDER, TRUE
SPOT, BEARING, LEFT
COOLANT (STATUS), LEVEL
CROSS LEVEL
LEVEL
FIRING CUTOUT, LIMITS, MOUNT (+)
MOUNT (GUN) (+), LOAD
RAIL (+) (MISSILE), ORDER, LOAD
RAIL (+) (MISSILE), READY, (TO) LOAD
LOAD ORDER, MISSILE (+), CONTINUOUS
LOAD ORDER, MISSILE (+), NONE
LOAD ORDER, MISSILE (+), ONE
LOAD ORDER, MISSILE (+), SELECT
TORPEDO (+), LOAD, (IN) TUBE (+)
MOUNT (GUN) (+), LOADED
RAIL (+) (MISSILE), STATUS, LOADED
TORPEDO (+), LOADED
TUBE (+), TORPEDO, LOADED
MISSILE (+), LOADED, (ON) RAIL (+)
LOCAL
LOCKED-ON
NOT LOCKED-ON
LONGITUDE
BEARING RATE, LOS, COMPUTED
BEARING RATE, LOS, CORRECTED

MIL-STD-1343(NAVY)
1 JULY 1969

LOS	BEARING RATE, LOS, OBSERVED
LOS	ELEVATION (TARGET), LOS, COMPUTED
LOS	ELEVATION (TARGET), LOS, CORRECTED
LOS	ELEVATION (TARGET), LOS, UNCORRECTED
LOS	ELEVATION RATE, LOS, COMPUTED
LOS	ELEVATION RATE, LOS, CORRECTED
LOS	ELEVATION RATE, LOS, OBSERVED
LOS	RANGE (TARGET), LOS, COMPUTED
LOS	RANGE (TARGET), LOS, CORRECTED
LOS	RANGE (TARGET), LOS, OBSERVED
LOS	RANGE RATE, LOS, COMPUTED
LOS	RANGE RATE, LOS, CORRECTED
LOS	RANGE RATE, LOS, OBSERVED
LOS	LOW ANGLE
LOW-BAND	JAMMING, LOW-BAND, CLEAR
LOW-E (MODE)	LOW-E (MODE)

M

MANUAL	MANUAL
MARK	MARK
MASTER SYNCHRONIZER	MASTER SYNCHRONIZER, ORDER, BLANKING PULSE
MASTER SYNCHRONIZER	MASTER SYNCHRONIZER, ORDER, ENERGIZE
MASTER SYNCHRONIZER	MASTER SYNCHRONIZER, ORDER, REPETITION RATE
MASTER SYNCHRONIZER	MASTER SYNCHRONIZER, ORDER TIMING TRIGGER
MASTER SYNCHRONIZER	MASTER SYNCHRONIZER, STATUS, (IN) CONTROL
MASTER SYNCHRONIZER	MASTER SYNCHRONIZER, STATUS, REPETITION RATE
MATCHED	MATCHED
MAXIMUM INDICATION	WARMUP STATUS, MISSILE (+), ?iAX.IdUhl INDICATION
MERCATOR	POSITION, OWNERSHIP, MERCATOR
MERCATOR	POSITION, TARGET, MERCATOR
MINESWEEPING	MINESWEEPING, ORDER, SELECT
MINESWEEPING	MINESWEEPING, STATUS, SELECT
MISSED	TARGET (+), MISSED
MISSILE	ATTITUDE, PITCH, MISSILE
MISSILE	ATTITUDE, ROLL, MISSILE
MISSILE	ATTITUDE, YAW, MISSILE
MISSILE	BEACON, MISSILE
MISSILE	VEHICLE (MOTION), MISSILE, E-W
MISSILE	VEHICLE (MOTION), MISSILE, HORIZONTAL
MISSILE	VEHICLE (MOTION), MISSILE, N-S
MISSILE	VEHICLE (MOTION), MISSILE, VECTOR
MISSILE	VEHICLE (MOTION), MISSILE, VERTICAL
MISSILE (+)	CAPTURE, MISSILE (+), ACQUISITION
MISSILE (+)	CODE (+) (GUIDANCE), ORDER, MISSILE (+)
MISSILE (+)	CODE (+) {GUIDANCE}, STATUS, MISSILE (+)
MISSILE (+)	CODED TIME, MISSILE (+), DC PULSED
MISSILE (+)	CODED TIME, MISSILE (+), FM
MISSILE (+)	CODED TIME, MISSILE (+), RELAY SIGNAL
MISSILE (+)	LOAD ORDER, MISSILE (+), CONTINUOUS
MISSILE (+)	LOAD ORDER, MISSILE (+), NONE

MIL-STD-1343(NAVY)
1 JULY 1S69

MISSILE (+)	LOAD ORDER, MISSILE (+) , ONE
MISSILE (+)	LOAD ORDER, MISSILE (+), SELECT
MISSILE (+)	MISSILE (+), (IN) ASSEMBLY AREA
MISSILE (+)	MISSILE (+), (IN) TRANSFER AREA
MISSILE (+)	MISSILE (+), (IN) TRANSFER AREA, READY
MISSILE (+)	MISSILE (+), AVAILABLE
MISSILE (+)	MISSILE (+), BURST OBSERVED
MISSILE (+)	MISSILE (+), CAPTURE GUIDANCE, ON
MISSILE (+)	MISSILE (+), CLUTTER REJECT BAND
MISSILE (+)	MISSILE (+), DUD, (ON) RAIL (+)
MISSILE (+)	MISSILE (+), ENGLISH BIAS, ORDER
MISSILE (+)	MISSILE (+), GRAVITY BIAS, SELECT
MISSILE (+)	MISSILE (+), HEAD-ORDER, A
MISSILE (+)	MISSILE (+), HEAD-ORDER, B
MISSILE (+)	MISSILE (+) , INCOMING/OUTGOING, SELECT
MISSILE (+)	MISSILE (+), JETTISON, (FROM) RAIL (+)
MISSILE (+)	MISSILE (+), LAUNCH
MISSILE (+)	MISSILE (+), LAUNCH, INTENT (TO)
MISSILE (+)	MISSILE (+), LAUNCHED, (FROM) RAIL (+)
MISSILE (+)	MISSILE (+), LOADED, (ON) RAIL (+)
MISSILE (+)	MISSILE (+), READY, (ON) RAIL (+)
MISSILE (+)	MISSILE (+), BOLL GYRO, ORDER
MISSILE (+)	MISSILE (+), SELECTED
MISSILE (+)	MISSILE (+) , THRUST CUTOFF, POSITION
MISSILE (+)	MISSILE (+) , UNLOAD, (FRO!!) RAIL (+)
MISSILE (+)	MISSILE (+), VNR (VARIABLE NAVIGATION RATIO), ORDER
MISSILE (+)	WARMUP STATUS, MISSILE (+), MAXIMUM INDICATION
MISSILE (+)	WARMUP STATUS, MISSILE (+), WARNING RAIL (+)
MISSILE (+)	X MISSILE (+)
MISSILE (+)	Y MISSILE (+)
MISSILE (+)	Z MISSILE (+)
MISSILE (+)	MISSILE (+), (ON) RAIL (+), ALARM
MISSILE (+)	WARMUP ORDER, MISSILE (+), (OFF) RAIL (+)
MISSILE (+)	WARMUP ORDER, MISSILE (+), (ON) BAIL (+)
MISSILE (+)	WARMUP ORDER, MISSILE (+), (OFF) RAIL (+)
MISSILE (+)	WARMUP STATUS, MISSILE (+), (ON) RAIL (+)
MIXED LOAD	WARMUP STATUS LAUNCHER (+)
MODE (FCS)	MODE (FCS), ORDER, EQUIPMENT (+)
MODE (FCS)	MODE (FCS), ORDER, FCS (+)
MODE (FCS)	MODE (FCS), ORDER, WEAPON (+)
MODE (FCS)	MODE (FCS) , STATUS, EQUIPMENT (+)
MODE (FCS)	MODE (FCS), STATUS, PCS (+)
MODE (FCS)	MODE (FCS), STATUS, WEAPON (+)
MODE (FCS)	MODE (FCS), (HIERARCHY)
MODIFIED	MODIFIED
MODULATION (+)	RADIO (+) , ORDER, MODULATION (+)
MODULATION (+)	RADIO (+) , STATUS, MODULATION (+)
MOTION	MOTION
MOUNT	GUN MOUNT
MOUNT (+)	FIRING CUTOFF, LIMITS, MOUNT (+)
MOUNT (+)	MOUNT (+)
MOUNT (GUN) (+)	MOUNT (GUN) (+), ALERT
MOUNT (GUN) (+)	MOUNT (GUN) (+) , CEASE FIRE

MIL-STD-1343(NAVY)
1 JULY 1969

MOUNT (GUN) (+)	mount (GUN) (+), FIRE
MOUNT (GUN) (+)	MOUNT (GUN) (+), FIRED
MOUNT (GUN) (+)	MOUNT (GUN) (+), LOAD
MOUNT (GUN) (+)	MOUNT (GUN) (+), LOADED
MOUNT (GUN) (+)	MOUNT (GUN) (+), ORDER, STOW
MOUNT (GUN) (+)	MOUNT (GUN) (+), READY
MOUNT (GUN) (+)	MOUNT (GUN) (+), STATUS, STOW
MOUNT (GUN) (+)	MOUNT (GUN) (+), UNLOAD, BREECH
MOUNT (GUN) (+)	MOUNT (GUN) (+), UNLOAD, MUZZLE
MTI	INTELLIGENCE, RADAR, MTI
MUZZLE	MOUNT (GUN) (+), UNLOAD, MUZZLE
MUDS (+)	CODE (+) (GUIDANCE), ORDER, MWDS (+)
MUDS (+)	CODE (+) (GUIDANCE), STATUS, MWDS (+)

N

N-S	BOOSTER SPLASH, COMPUTED, N-S
N-S	RANGE (TARGET), N-S, COMPUTED
N-S	RANGE (TARGET), N-S, CORRECTED
N-S	RANGE RATE, N-S, COMPUTED
N-S	RANGE RATE, N-S, CORRECTED
N-S	VEHICLE (MOTION), AIRCRAFT, N-S
N-S	VEHICLE (MOTION), MISSILE, N-S
N-S	VEHICLE (MOTION), OWNERSHIP, N-S
N-S	VEHICLE (MOTION), TARGET, N-S
NARROW	BLIND ZONE, LAUNCHER (+), NARROW
NARROW	BLIND ZONE, RADAR (+), NARROW
NO-GO	NO-GO
NOISE	INTELLIGENCE, ECM, NOISE
NONE	LOAD ORDER, MISSILE (+), NONE
NOT	NOT AVAILABLE
NOT	NOT LOCKED-ON
NOT	NOT READY
NTDS	INTELLIGENCE, NTDS, DIGITAL
NUMBER (OF)	ROUNDS (FIRED), NUMBER (OF), GUN (+)

O

OBSERVED	BEARING (TARGET), RELATIVE, OBSERVED
OBSERVED	BEARING (TARGET), TRUE, OBSERVED
OBSERVED	BEARING RATE, APPARENT, OBSERVED
OBSERVED	BEARING RATE, LOS, OBSERVED
OBSERVED	ELEVATION RATE, APPARENT, OBSERVED
OBSERVED	ELEVATION RATE, LOS, OBSERVED
OBSERVED	RANGE (TARGET), APPARENT, OBSERVED
OBSERVED	RANGE (TARGET), LOS, OBSERVED
OBSERVED	RANGE RATE, APPARENT, OBSERVED
OBSERVED	RANGE RATE, LOS, OBSERVED
OFF	OFF

MIL-STD-1343(NAVY)
1 JULY 1969

ON	MISSILE (+), CAPTURE GUIDANCE, ON
ON	ON
ONE	LOAD ORDER, MISSILE (+), ONE
OPEN	OPEN DOOR
OPTICAL (+)	OPTICAL (+)
OUT	SPOT, RANGE, OUT
OVERTEMPERATURE	OVERTEMPERATURE ALARM SUPPLY
GUN-CONTROL	BUSY, OWN-CONTROL
OWNSHIP	ATTITUDE, HEALING, OWNSHIP
OWNSHIP	ATTITUDE, PITCH, OWNSHIP
OWNSHIP	ATTITUDE, ROLL, OWNSHIP
OWNSHIP	ATTITUDE, YAW, OWNSHIP
OWNSHIP	OWNSHIP COURSE
OWNSHIP	OWNSHIP SPEED
OWNSHIP	POSITION, OWNSHIP, GRID ORIGIN
OWNSHIP	POSITION, OWNSHIP, MERCATOR
OWNSHIP	POSITION, OWNSHIP, REFERENCE POINT
OWNSHIP	VEHICLE (MOTION), OWNSHIP, E-W
OWNSHIP	VEHICLE (MOTICN), OWNSHIP, HORIZONTAL
OWNSHIP	VEHICLE (MOTICN), OWNSHIP, N-S
OWNSHIP	WIND, DIRECTION, OWNSHIP
OWNSHIP	WIND, SPEED, OWNSHIP

P

PARALLAX	PARALLAX
PARALLAX (UNIT)	PARALLAX (UNIT), ELEVATION, EQUIPMENT (+)
PARALLAX (UNIT)	PARALLAX (UNIT), TRAIN, EQUIPMENT (+)
PASSIVE	HOMING (MISSILE (+)), PASSIVE, ORDER
PASSIVE	PASSIVE
PERMISSION	DEPTH CHARGE (+), FIRE, PERMISSION
PERMISSION	TORPEDO (+), FIRE, PERMISSION
PHASING ORDER	PHASING ORDER, RADAR (+)
PITCH	ATTITUDE, PITCH, MISSILE
PITCH	ATTITUDE, PITCH, OWNSHIP
POINT	AIM POINT
PORT	RAIL (+) (MISSILE), READY, PORT
POSITION	MISSILE (+), THRUST CUTOFF, POSITION
POSITION	POSITION, OWNSHIP, GRID ORIGIN
POSITION	POSITION, OWNSHIP, MERCATOR
POSITION	POSITION, OWNSHIP, REFERENCE POINT
POSITION	POSITION, TARGET, GRID ORIGIN
POSITION	POSITION, TARGET, MERCATOR
POSITION	POSITION, TARGET, REFERENCE POINT
POSITION	POSITION, (HIEKARCHY)
POWER	EQUIPMENT (+) (SITUATION), ORDER, POWER
POWER	EQUIPMENT (+) (SITUATION), STATUS, POWER
POWER	POWER, CHANGEOVER
POWER (ELECIRIC)	POWER (ELECTRIC), FUNCTIONAL
POWER (ELECTRIC)	POWER (ELECTRIC), INDICATING
POWER (ELECTRIC)	POWER (ELECTRIC), REFERENCE, AC (+)

MIL-STD-1343(NAVY)

1 JULY 1969

POWER (ELECTRIC)
 POWER (ELECTRIC)
 POWER (ELECTRIC)
 PRESSURE
 PROGRAM (SEARCH)
 PROGRAM (SEARCH)
 PULSE
 PULSE
 PULSE

POWER (ELECTRIC), REFERENCE, DC (+)
 POWER (ELECTRIC), SHIP-SERVICE, AC (+)
 POWER (ELECTRIC), SHIP-SERVICE, DC (+)
 COOLANT (STATUS), PRESSURE
 SONAR (+), ORDER, PROGRAM (SEARCH)
 SONAR (+), STATUS, PROGRAM (SEARCH)
 INTELLIGENCE, ECM, PULSE
 PULSE
 PULSE, CLOCK, RADAR (+)

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INTELLIGENCE, RADAR, MTI
 INTELLIGENCE, RADAR, RETURN
 INTELLIGENCE, RADAR, VIDEO
 BLIND ZONE, RADAR (+), NARROW
 BLIND ZONE, RADAR (+), HIDE
 COAST, RADAR (+), ALERT
 COAST, RADAR (+), ORDER
 JAMMING, RADAR (+), ALERT
 PHASING ORDER, RADAR (+)
 PULSE, CLOCK, RADAR (+)
 RADAR (+)
 RADAR (+), ORDER, BEAM (PROGRAM)
 RADAR (+), ORDER, BEAM (SHAPE)
 RADAR (+), ORDER, BEAM (SPREAD)
 RADAR (+), ORDER, CONTACT
 RADAR (+), ORDER, CWI
 RADAR (+), ORDER, SEARCH
 RADAR (+), ORDER, TRACK (AIDED)
 RADAR (+), ORDER, TRACK (AIRCRAFT)
 RADAR (+), ORDER, TRACK (MISSILE)
 RADAR (+), ORDER, TRACK (SURFACE)
 RADAR (+), STATUS, BEAM (PROGRAM)
 RADAR (+), STATUS, BEAM (SHAPE)
 RADAR (+), STATUS, BEAM (SPREAD)
 RADAR (+), STATUS, CONTACT
 RADAR (+), STATUS, CWI
 RADAR (+), STATUS, SEARCH
 RADAR (+), STATUS, TRACK (AIDED)
 RADAR (+), STATUS, TRACK (AIRCRAFT)
 RADAR (+), STATUS, TRACK (MISSILE)
 RADAR (+), STATUS, TRACK (SURFACE)
 INTELLIGENCE, RADIO, AUDIO
 INTELLIGENCE, RADIO, CW
 INTELLIGENCE, RADIO, DIRECTIONFINDER
 INTELLIGENCE, RADIO, FACSIMILE
 INTELLIGENCE, RADIO, FREQUENCY (STANDARD)
 INTELLIGENCE, RADIO, TELEMTRY
 INTELLIGENCE, RADIO, TELETYPE
 INTELLIGENCE, RADIO, VIDEO

MIL-STD-1343(NAVY)
1 JULY 1969

RADIO (+)	RADIO (+), ORDER, CHANNEL (+)
RADIO (+)	RADIO (+), ORDER, FREQUENCY
RADIO (+)	RADIO (+), ORDER, MODULATION (+)
RADIO (+)	RADIO (+), STATUS, CHANNEL (+)
RADIO (+)	RADIO (+), STATUS, FREQUENCY
RADIO (+)	RADIO (+), STATUS, MODULATION (+)
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), ORDER, EXTEND
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), ORDER, LOAD
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), ORDER, RETRACT
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), ORDER, SELECT
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), READY, (TO) LOAD
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), READY, PORT
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), READY, STARBOARD
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, CLEAR
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, EMPTY
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, EXTENDED
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, LOADED
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, RETRACTED
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, SAFE
RAIL (+) (MISSILE)	RAIL (+) (MISSILE), STATUS, SELECT
RANGE	BOOSTER SPLASH, COMPUTED, RANGE
RANGE	SPOT, RANGE, IN
RANGE	SPOT, RANGE, OUT
RANGE	WARHEAD, WATER ENTRY, COMPUTED, RANGE
RANGE (TARGET)	RANGE (TARGET), APPARENT, OBSERVED
RANGE (TARGET)	RANGE (TARGET), E-W, COMPUTED
RANGE (TARGET)	RANGE (TARGET), E-H, CORRECTED
RANGE (TARGET)	RANGE (TARGET), HORIZONTAL, COMPUTED
RANGE (TARGET)	RANGE (TARGET), HORIZONTAL, CORRECTED
RANGE (TARGET)	RANGE (TARGET), LOS, COMPUTED
RANGE (TARGET)	RANGE (TARGET), LOS, CORRECTED
RANGE (TARGET)	RANGE (TARGET), LOS, OBSERVED
RANGE (TARGET)	RANGE (TARGET), N-S, COMPUTED
RANGE (TARGET)	RANGE (TARGET), N-S, CORRECTED
RANGE (TARGET)	RANGE (TARGET), (HIERARCHY)
RANGE RATE	RANGE RATE, APPARENT, OBSERVED
RANGE RATE	RANGE RATE, E-W, COMPUTED
RANGE RATE	RANGE RATE, E-U, CORRECTED
RANGE RATE	RANGE RATE, HORIZONTAL, COMPUTED
RANGE RATE	RANGE RATE, HORIZONTAL, CORRECTED
RANGE RATE	RANGE RATE, LOS, COMPUTED
RANGE RATE	RANGE RATE, LOS, CORRECTED
RANGE RATE	RANGE RATE, LOS, OBSERVED
RANGE RATE	RANGE RATE, N-S, COMPUTED
RANGE RATE	RANGE RATE, N-S, CORRECTED
RANGE RATE	RANGE RATE, (HIERARCHY)
REACH	TORPEDO, REACH
READY	AIR READY
READY	DEPTH CHARGE (+), READY, (TO) FIRE
READY	JAMMING, ECM (+), READY
READY	MISSILE (+), (IN) TRANSFER AREA, READY
READY	MOUNT (GUN) (+), READY
READY	NOT READY

MIL-STD-1343(NAVY)

1 JULY 1969

READY	RAIL (+) (MISSILE), READY, (TO) LOAD
READY	RAIL (+) (MISSILE), READY, PORT
READY	RAIL (+) (MISSILE), READY, STARBOARD
READY	READY
READY	TORPEDO (+), READY, (TO) FIRE
READY	TUNE (+), TORPEDO, READY
READY	MISSILE (+), READY, (ON) RAIL (+)
REBOUND	REBOUND
REFERENCE	BEARING, COSRO, REFERENCE
REFERENCE	ELEVATION, COSRO, REFERENCE
REFERENCE	POWER (ELECTRIC), REFERENCE, AC (+)
REFERENCE	POWER (ELECTRIC), REFERENCE, DC (+)
REFERENCE	REFERENCE
REFERENCE POINT	POSITION, OWNERSHIP, REFERENCE POINT
REFERENCE POINT	POSITION, TARGET, REFERENCE POINT
RELATIVE	BEARING (EQUIPMENT), RELATIVE, CORRECTED
RELATIVE	BEARING (EQUIPMENT), RELATIVE, ERROR
RELATIVE	BEARING (EQUIPMENT), RELATIVE, ORDR
RELATIVE	BEARING (EQUIPMENT), RELATIVE, STABILIZED
RELATIVE	BEARING (EQUIPMENT), RELATIVE, UNCORRECTED
RELATIVE	BEARING (TARGET), RELATIVE, APPARENT
RELATIVE	BEARING (TARGET), RELATIVE, COMPUTED
RELATIVE	BEARING (TARGET), RELATIVE, OBSERVED
RELATIVE	BEARING (TARGET), RELATIVE, STABILIZED
RELATIVE	GUN TRAIN-ORDER, RELATIVE
RELATIVE	LAUNCHER TRAIN-ORDER, RELATIVE
RELATIVE	TRAIN (EQUIPMENT), RELATIVE, ACTUAL
RELATIVE	TRAIN (EQUIPMENT), RELATIVE, ERROR
RELATIVE	TRAIN (EQUIPMENT), RELATIVE, ORDER
RELAY SIGNAL	CODED TIME, MISSILE (+), RELAY SIGNAL
RELIABLE	RELIABLE
REMOTE	REMOTE
REPETITION RATE	MASTER SYNCHRONIZER, ORDER, REPETITION RATE
REPETITION RATE	MASTER SYNCHRONIZER, STATUS, REPETITION RATE
REQUEST	JAMMING, ECM (+), REQUEST
REQUEST	REQUEST
RESET	RESET
RESISTIVITY	COOLANT (STATUS), RESISTIVITY
RESPONSE	RESPONSE
RETRACT	RAIL (+) (MISSILE), ORDER, RETRACT
RETRACTED	RAIL (+) (MISSILE), STATUS, RETRACTED
RETURN	INTELLIGENCE, RADAR, RETURN
RETURN	INTELLIGENCE, SONAR, RETURN
RF	IFF (SIGNAL), RF, EQUIPMENT (+)
RGPO	IG (&) RGPO
RIGHT	SPOT, BEARING, RIGHT
ROLL	ATTITUDE, ROLL, MISSILE
ROLL	ATTITUDE, ROLL, OWNERSHIP
ROLL GYRO	MISSILE (+), ROLL GYRO, ORDER
ROUNDS (FIRED)	ROUNDS (FIRED), NUMBER (OF), GUN (+)
RUN	TORPEDO, RUN, END

MIL-STD-1343(NAVY)
1 JULY 1969

S

SAFE	RAIL (+) (MISSILE), STATUS, SAFE
SAMPLE	SAMPLE
SEARCH	RADAR (+), ORDER, SEARCH
SEARCH	RADAR (+), STATUS, SEARCH
SEARCH	SONAR (+), ORDER, SEARCH
SEARCH	SONAR (+), STATUS, SEARCH
SELECT	LOAD ORDER, MISSILE (+), SELECT
SELECT	MINESWEEPING, ORDER, SELECT
SELECT	MINESWEEPING, STATUS, SELECT
SELECT	MISSILE (+), GRAVITY BIAS, SELECT
SELECT	MISSILE (+), INCOMING/OUTGOING, SELECT
SELECT	RAIL (+) (MISSILE), ORDER, SELECT
SELECT	RAIL (+) (MISSILE), STATUS, SELECT
SELECTED	AMMUNITION (GUN) (+), SELECTED
SELECTED	DEPTH CHARGE (+), SELECTED
SELECTED	MISSILE (+), SELECTED
SELECTED	SELECTED
SELECTED	TORPEDO (+), SELECTED
SELECTED	TUBE (+), TORPEDO, SELECTED
SEMI-ACTIVE	HOMING, SEMI-ACTIVE
SEPARATION	BOOSTER (MISSILE), SEPARATION, INDICATION
(TO) SEPARATION	TIME, (OF) FLIGHT, (TO) SEPARATION
SET	FUZE (+), ORDER, SET
SET	VELOCITY, CUTOFF, SET
SHIP-SERVICE	POWER (ELECTRIC), SHIP-SERVICE, AC (+)
SHIP-SERVICE	POWER (ELECTRIC), SHIP-SERVICE, DC (+)
SIF	IFF (SIGNAL), SIF, EQUIPMENT (+)
SIGHT	SIGHT ANGLE
SIGHT	SIGHT DEFLECTION
SIMULATED	SIMULATED
SLEW	SLEW
SMOOTHED	SMOOTHED
SONAR	INTELLIGENCE, SONAR, AUDIO
SONAR	INTELLIGENCE, SONAR, BOTTOM (BOUNCE)
SONAR	INTELLIGENCE, SONAR, CW
SONAR	INTELLIGENCE, SONAR, RETURN
SONAR	INTELLIGENCE, SONAR, VIDEO
SONAR (+)	DWELL TIME, SONAR (+)
SONAR (+)	SONAR (+)
SONAR (+)	SONAR (+), ORDER, ATTACK (SEQUENCE)
SONAR (+)	SONAR (+), ORDER, CONTACT
SONAR (+)	SONAR (+), ORDER, PROGRAM (SEARCH)
SONAR (+)	SONAR (+), ORDER, SEARCH
SONAR (+)	SONAR (+), ORDER, TRACK (AIDED)
SONAR (+)	SONAR (+), ORDER, TRANSDUCER (DEPTH)
SONAR (+)	SONAR (+), STATUS, ATTACK (SEQUENCE)
SONAR (+)	SONAR (+), STATUS, CONTACT
SONAR (+)	SONAR (+), STATUS, PROGRAM (SEARCH)

MIL-STD-1343(NAVY)
1 JULY 1969

SONAR (+)	SONAR (+), STATUS, SEARCH
SONAR (+)	SONAR (+), STATUS, TRACK (AIDED)
SONAR (+)	SONAR (+), STATUS, TRANSDUCER (DEPTH)
SPEED	OWNSHIP SPEED
SPEED	SPEED
SPEED	WIND, SPEED, APPARENT
SPEED	WIND, SPEED, OWNSHIP
SPEED	WIND, SPEED, TRUE
SPOT	SPOT, BEARING, LEFT
SPOT	SPOT, BEARING, RIGHT
SPOT	SPOT, ELEVATION, DORN
SPOT	SPOT, ELEVATION, UP
SPOT	SPOT, RANGE, IN
SPOT	SPOT, RANGE, OUT
SPOT (JAMMING)	INTELLIGENCE, ECM, SPOT (JAMMING)
STABILIZED	BEARING (EQUIPMENT), RELATIVE, STABILIZED
STABILIZED	BEARING (EQUIPMENT), TRUE, STABILIZED
STABILIZED	BEARING (TARGET), RELATIVE, STABILIZED
STABILIZED	BEARING (TARGET), TRUE, STABILIZED
STABILIZED	ELEVATION (EQUIPMENT), STABILIZED, COMPUTED
STABILIZED	ELEVATION (EQUIPMENT), STABILIZED, ERROR
STABILIZED	ELEVATION (EQUIPMENT), STABILIZED, ORDER
STABILIZED	ELEVATION (EQUIPMENT), STABILIZED, UNCORRECTED
STANDBY	STANDBY
STARBOARD	RAIL (+) (MISSILE), READY, STARBOARD
START	JAMMING, ECM (+), START
START	START
STOP	JAMMING, ECM (+), STOP
STOP	STOP
STOW	LAUNCHER (+) (MISSILE), ORDER, STOW
STOW	LAUNCHER (+) (MISSILE), STATUS, STOW
STOW	MOUNT (GUN) (+), ORDER, STOW
STOW	MOUNT (GUN) (+), STATUS, STOW
STOW	TUBE (+) (TORPEDO), ORDER, STOW
STOW	TUBE (+) (TORPEDO), STATUS, STOW
SUBROC	SUBROC
SUPPLY	OVERTEMPERATURE ALARM SUPPLY
SURFACE	SURFACE
SURVIVED	TARGET (+), SURVIVED
SYNCHRONIZED	SYNCHRONIZED

T

TARGET	POSITION, TARGET, GRID ORIGIN
TARGET	POSITION, TARGET, MERCATOR
TARGET	POSITION, TARGET, REFERENCE POINT
(TO) TARGET	TIME, (OF) FLIGHT, (TO) TARGET
TARGET	VEHICLE (MOTION), TARGET, E-W
TARGET	VEHICLE (MOTION), TARGET, HORIZONTAL
TARGET	VEHICLE (MOTION), TARGET, N-S
TARGET	VEHICLE (MGTICN), TARGET, VECTOR

MIL-STD-1343(NAVY)
1 JULY 1969

TARGET	VEHICLE (MOTION), TARGET, VERTICAL
TARGET (+)	ARROW CONTROL, FCS (+), TARGET (+)
TARGET (+)	TARGET (+), CATEGORY
TARGET (+)	TARGET (+), ENTRY
TARGET (+)	TARGET (+), INDICATION
TARGET (+)	TARGET (+), KILL
TARGET (+)	TARGET (+), MISSED
TARGET (+)	TARGET (+), SURVIVED
TELEMETRY	INTELLIGENCE, RADIO, TELEMETRY
TELETYPE	INTELLIGENCE, RADIO, TELETYPE
TELEVISION	TELEVISION
TEMPERATURE	COOLANT (STATUS), TEMPERATURE
TEMPERATURE	TEMPERATURE, AIR
TEST	EQUIPMENT (+) (SITUATION), ORDER, TEST
TEST	EQUIPMENT (+) (SITUATION), STATUS, TEST
TEST	IFF (SIGNAL), TEST, EQUIPMENT (+)
TEST	TEST
THRUST CUTOFF	MISSILE (+), THRUST CUTOFF, POSITION
TIME	CLOCK TIME
TIME	DEAD TIME
TIME	TIME, (OF) FLIGHT, (TO) CAPTURE
TIME	TIME, (OF) FLIGHT, (TO) FUZE BURST
TIME	TIME, (OF) FLIGHT, (TO) INTERCEPT
TIME	TIME, (OF) FLIGHT, (TO) SEPARATION
TIME	TIME, (OF) FLIGHT, (TO) TARGET
TIMING TRIGGER	MASTER SYNCHRONIZER, ORDER, TIMING TRIGGER
TORPEDO	TORPEDO, ADVANCE, COMPUTED
TORPEDO	TORPEDO, COURSE, INDICATION
TORPEDO	TORPEDO, DEPTH, ORDER
TORPEDO	TORPEDO, GYRO ANGLE, ORDER
TORPEDO	TORPEDO, REACH
TORPEDO	TORPEDO, RUN, END
TORPEDO	TUBE (+), TORPEDO, LOADED
TORPEDO	TUBE (+), TORPEDO, READY
TORPEDO	TUBE (+), TORPEDO, SELECTED
TORPEDO (+)	TORPEDO (+), APPROVED
TORPEDO (+)	TORPEDO (+), AVAILABLE
TORPEDO (+)	TORPEDO (+), DUD, (IN) TUBE
TORPEDO (+)	TORPEDO (+), FIRE, ORDER
TORPEDO (+)	TORPEDO (+), FIRE, PERMISSION
TORPEDO (+)	TORPEDO (+), FIRED, INDICATION
TORPEDO (+)	TORPEDO (+), JETTISON, ORDER
TORPEDO (+)	TORPEDO (+), LOAD, (IN) TUBE (+)
TORPEDO (+)	TORPEDO (+), LOADED
TORPEDO (+)	TORPEDO (+), READY, (TO) FIRE
TORPEDO (+)	TORPEDO (+), SELECTED
TORPEDO (+)	TORPEDO (+), WIRE GUIDANCE, ORDER
TRACK (+)	BREAK, TRACK (+)
TRACK (+)	DROP, TRACK (+)
TRACK (AIDED)	RADAR (+), ORDER, TRACK (AIDED)
TRACK (AIDED)	RADAR (+), STATUS, TRACK (AIDED)
TRACK (AIDED)	SONAR (+), ORDER, TRACK (AIDED)
TRACK (AIDED)	SONAR (+), STATUS, TRACK (AIDED)

MIL-STD-1343(NAVY)
1 JULY 1969

TRACK (AIRCRAFT)	RADAR (+), ORDER, TRACK (AIRCRAFT)
TRACK (AIRCRAFT)	RADAR (+), STATUS, TRACK (AIRCRAFT)
TRACK (MISSILE)	RADAR (+), ORDER, TRACK (MISSILE)
TRACK (MISSILE)	RADAR (+), STATUS, TRACK (MISSILE)
TRACK (SURFACE)	RADAR (+), ORDER, TRACK (SURFACE)
TRACK (SURFACE)	RADAR (+), STATUS, TRACK (SURFACE)
TRAIN	PARALLAX (UNIT), TRAIN, EQUIPMENT (+)
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), RELATIVE, ACTUAL
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), RELATIVE, ERROR
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), RELATIVE, ORDER
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), TRUE, ACTUAL
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), TRUE, ERROR
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), TRUE, ORDER
TRAIN (EQUIPMENT)	TRAIN (EQUIPMENT), (HIERARCHY)
TRANSDUCER (DEPTH)	SONAR (+), ORDER, TRANSDUCER (DEPTH)
TRANSDUCER (DEPTH)	SONAR (+), STATUS, TRANSDUCER (DEPTH)
(IN) TRANSFER AREA	MISSILE (+), (IN) TRANSFER AREA
(IN) TRANSFER AREA	MISSILE (+), (IN) TRANSFER AREA, READY
TRAVERSE (EQUIPMENT)	TRAVERSE (EQUIPMENT)
TRIGGER	IFF (SIGNAL), TRIGGER, EQUIPMENT (+)
TRIGGER	TRIGGER
TRUE	BEARING (EQUIPMENT), TRUE, CORRECTED
TRUE	BEARING (EQUIPMENT), TRUE, ERROR
TRUE	BEARING (EQUIPMENT), TRUE, ORDER
TRUE	BEARING (EQUIPMENT), TRUE, STABILIZED
TRUE	BEARING (EQUIPMENT), TRUE, UNCORRECTED
TRUE	BEARING (TARGET), TRUE, APPARENT
TRUE	BEARING (TARGET), TRUE, COMPUTED
TRUE	BEARING (TARGET), TRUE, OBSERVED
TRUE	BEARING (TARGET), TRUE, STABILIZED
TRUE	GUN TRAIN-ORDER, TRUE
TRUE	LAUNCHER TRAIN-ORDER, TRUE
TRUE	TRAIN (EQUIPMENT), TRUE, ACTUAL
TRUE	TRAIN (EQUIPMENT), TRUE, ERROR
TRUE	TRAIN (EQUIPMENT), TRUE, ORDER
TRUE	WIND, DIRECTION, TRUE
TRUE	WIND, SPEED, TRUE
(IN) TUBE	TORPEDO (+), DUD, (IN) TUBE
TUBE (+)	TUBE (+), TORPEDO, LOADED
TUBE (+)	TUBE (+), TORPEDO, READY
TUBE (+)	TUBE (+), TORPEDO, SELECTED
TUBE (+) (TORPEDO)	TUBE (+) (TORPEDO), ORDER, STOW
TUBE (+) (TORPEDO)	TUBE (+) (TORPEDO), STATUS, STOW
TURN	TURN

U

UNASSIGNED
UNCAGE
UNCAGED
UNCORRECTED

UNASSIGNED
GYRO (+), UNCAGE, ORDER
GYRO (+), UNCAGED, INDICATION
BEARING (EQUIPMENT), RELATIVE, UNCORRECTED

MIL-STD-1343(NAVY)
1 JULY 1969

UNCORRECTED	BEARING (EQUIPMENT), TRUE, UNCORRECTED
UNCORRECTED	ELEVATION (EQUIPMENT), ACTUAL, UNCORRECTED
UNCORRECTED	ELEVATION (EQUIPMENT), STABILIZED, UNCORRECTED
UNCORRECTED	ELEVATION (TARGET), APPARENT, UNCORRECTED
UNCORRECTED	ELEVATION (TARGET), LOS, UNCORRECTED
UNLOAD	MOUNT (GUN) (+), UNLOAD, BREECH
UNLOAD	MOUNT (GUN) (+), UNLOAD, MUZZLE
UNLOAD	MISSILE (+), UNLOAD, (FROM) RAIL (+)
UNRELIABLE	UNRELIABLE
UP	SPOT, ELEVATION, UP

V

VALID	VALID
VECTOR	VEHICLE (MOTION), AIRCRAFT, VECTOR
VECTOR	VEHICLE (MOTION), MISSILE, VECTOR
VECTOR	VEHICLE (MOTION), TARGET, VECTOR
VEHICLE (MOTION)	VEHICLE (MOTION), AIRCRAFT, E-W
VEHICLE (MOTION)	VEHICLE (MOTION), AIRCRAFT, HORIZONTAL
VEHICLE (MOTION)	VEHICLE (MOTION), AIRCRAFT, N-S
VEHICLE (MOTION)	VEHICLE (MOTION), AIRCRAFT, VECTOR
VEHICLE (MOTION)	VEHICLE (MOTION), AIRCRAFT, VERTICAL
VEHICLE (MOTION)	VEHICLE (MOTION), MISSILE, E-W
VEHICLE (MOTION)	VEHICLE (MOTION), MISSILE, HORIZONTAL
VEHICLE (MOTION)	VEHICLE (MOTION), MISSILE, N-S
VEHICLE (MOTION)	VEHICLE (MOTION), MISSILE, VECTOR
VEHICLE (MOTION)	VEHICLE (MOTION), MISSILE, VERTICAL
VEHICLE (MOTION)	VEHICLE (MOTION), OWNERSHIP, E-W
VEHICLE (MOTION)	VEHICLE (MOTION), OWNERSHIP, HORIZONTAL
VEHICLE (MOTION)	VEHICLE (MOTION), OWNERSHIP, N-S
VEHICLE (MOTION)	VEHICLE (MOTION), TARGET, E-W
VEHICLE (MOTION)	VEHICLE (MOTION), TARGET, HORIZONTAL
VEHICLE (MOTION)	VEHICLE (MOTION), TARGET, N-S
VEHICLE (MOTION)	VEHICLE (MOTION), TARGET, VECTOR
VEHICLE (MOTION)	VEHICLE (MOTION), TARGET, VERTICAL
VEHICLE (MOTION)	VEHICLE (MOTION), (HIERARCHY)
VELOCITY	VELOCITY, CUTOFF, SET
VELOCITY	VELOCITY, INITIAL
VERTICAL	ELEVATION RATE, VERTICAL, COMPUTED
VERTICAL	VEHICLE (MOTION), AIRCRAFT, VERTICAL
VERTICAL	VEHICLE (MOTION), MISSILE, VERTICAL
VERTICAL	VEHICLE (MOTION), TARGET, VERTICAL
VIDEO	IFF (SIGNAL), VIDEO, EQUIPMENT (+)
VIDEO	INTELLIGENCE, ECM, VIDEO
VIDEO	INTELLIGENCE, RADAR, VIDEO
VIDEO	INTELLIGENCE, RADIO, VIDEO
VIDEO	INTELLIGENCE, SONAR, VIDEO
VNR (VARIABLE NAVIGATION)	MISSILE (+), VNR (VARIABLE NAVIGATION RATIO), ORDE
VOICE	VOICE

MIL-STD-1343-(NAVY)

1 JULY 1969

W

WARHEAD	WARHEAD, WATER ENTRY, COMPUTED, BEARING
WARHEAD	WARHEAD, WATER ENTRY, COMPUTED, RANGE
WARMUP ORDER	WARMUP ORDER, MISSILE (+), (OFF) RAIL (+)
WARMUP ORDER	WARMUP ORDER, MISSILE (+), (ON) RAIL (+)
WARMUP STATUS	WARMUP STATUS, MISSILE (+), (OFF) RAIL (+)
WARMUP STATUS	WARMUP STATUS, MISSILE (+), (ON) RAIL (+)
WARMUP STATUS	WARMUP STATUS, MISSILE (+), MAXIMUM INDICATION
WARMUP STATUS	WARMUP STATUS, MISSILE (+), WARNING RAIL (+)
WARNING	JAMMING, ECM, WARNING
WARNING	WARNING
WARNING RAIL (+)	WARMUP STATUS, MISSILE (+), WARNING RAIL (+)
WATER ENTRY	WARHEAD, WATER ENTRY, COMPUTED, BEARING
WATER ENTRY	WARHEAD, WATER ENTRY, COMPUTED, RANGE
WEAPON (+)	DETONATE, WEAPON (+), ORDER
WEAPON (+)	MODE (FCS), ORDER, WEAPON (+)
WEAPON (+)	MODE (PCS), STATUS, WEAPON (+)
WEAPON (+)	DESIGNATE, WEAPON (+), (TO) EQUIPMENT (+)
WEAPON (+)	DESIGNATE, WEAPON (+), (TO) FCS (+)
WIDE	BLIND ZONE, LAUNCHER (+), WIDE
WIDE	BLIND ZONE, RADAR (+), WIDE
WIND	BLIND, DIRECTION, APPARENT
WIND	WIND, DIRECTION, OWNERSHIP
WIND	WIND, DIRECTION, TRUE
WIND	WIND, SPEED, APPARENT
WIND	WIND, SPEED, OWNERSHIP
WIND	WIND, SPEED, TRUE
WINDOW	WINDOW
WIRE GUIDANCE	TORPEDO (+), WIRE GUIDANCE, ORDER

X

X	X MISSILE (+)
X-COORDINATE	X-COORDINATE

Y

Y	Y MISSILE (+)
Y-COORDINATE	Y-COORDINATE
YAW	ATTITUDE, YAM, MISSILE
YAW	ATTITUDE, YAM, OWNERSHIP

MIL-STD-1343(NAVY)
1 JULY 1969

Z

Z
Z-COORDINATE
ZERO

Z MISSILE (+)
Z-COORDINATE
ZERO

MIL-STD-1343(NAVY)
1 July 1969

5.4

PART IV

Code Index

MIL-STD-1343(NAVY)
1 July 1969

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MIL-STD-1343(NAVY)
1 JULY 1969

CODE INDEX

OF

ELECTRONIC & WEAPONS CONTROL

INTERFACE FUNCTION TERMS

(NAVAL SHIP COMBAT SYSTEMS)

SECTION A TERMS

X000 CURSOR, EQUIPMENT (+), DISPLAY
J001 DECOY, ECM, ALERT
J002 DECOY, ECM, ORDER
I003 IFF (SIGNAL), RF, EQUIPMENT (+)
I004 IFF (SIGNAL), SIP, EQUIPMENT (+)
I005 IFF (SIGNAL), TEST, EQUIPMENT (+)
I006 IPF (SIGNAL), TRIGGER, EQUIPMENT (+)
I007 IFF (SIGNAL), VIDEO, EQUIPMENT (+)
J008 INTELLIGENCE, ECM, BARRAGE (JAMMING)
J009 INTELLIGENCE, ECM, COHERENT
J010 INTELLIGENCE, ECM, CWI (CONTINUOUS WAVE ILLUMINATION)
J011 INTELLIGENCE, ECM, NOISE
J012 INTELLIGENCE, ECM, PULSE
J013 INTELLIGENCE, ECM, SPOT (JAMMING)
J014 INTELLIGENCE, ECM, VIDEO
G015 INTELLIGENCE, RADAR, VIDEO
I016 INTELLIGENCE, RADIO, CM
I017 INTELLIGENCE, RADIO, DIRECTIONFINDER
I018 INTELLIGENCE, RADIO, FACSIMILE
I019 INTELLIGENCE, RADIO, FREQUENCY (STANDARD)
I020 INTELLIGENCE, RADIO, TELEMTRY
I021 INTELLIGENCE, RADIO, TELETYPE
I022 INTELLIGENCE, RADIO, VIDEO
I023 INTELLIGENCE, RADIO, AUDIO
H024 INTELLIGENCE, SONAR, BOTTOM (BOUNCE)
H025 INTELLIGENCE, SONAR, CW
H026 INTELLIGENCE, SONAR, VIDEO
H027 INTELLIGENCE, SONAR, AUDIO
H028 INTELLIGENCE, SONAR, RETURN
O100 ARROW CONTROL, FCS (+), TARGET (+)
B101 BEARING (TARGET), RELATIVE, APPARENT
B102 BEARING (TARGET), RELATIVE, COMPUTED
B103 BEARING (TARGET), RELATIVE, OBSERVED
B104 BEARING (TARGET), RELATIVE, STABILIZED
B105 BEARING (TARGET), TRUE, APPARENT
B106 BEARING (TARGET), TRUE, COMPUTED
B107 BEARING (TARGET), TRUE, OBSERVED
B108 BEARING (TARGET), TRUE, STABILIZED

MIL-STD-1343(NAVY)
1 JULY 1969

B109 BOOSTER SPLASH, COMPUTED, BEARING (TRUE)
 R110 BOOSTER SPLASH, COMPUTED, E-W
 R111 BOOSTER SPLASH, COMPUTED, N-S
 R112 BOOSTER SPLASH, COMPUTED, RANGE
 Q113 DETONATE, WEAPON (+), ORDER
 X114 DROP, TRACK (+)
 E115 ELEVATION (TARGET), APPARENT, CORRECTED
 E116 ELEVATION (TARGET), APPARENT, UNCORRECTED
 E117 ELEVATION (TARGET), LOS, COMPUTED
 E118 ELEVATION (TARGET), LOS, CORRECTED
 E119 ELEVATION (TARGET), LOS, UNCORRECTED
 X120 HOOK-AND-MARK
 G121 INTELLIGENCE, RADAR, MTI
 G122 INTELLIGENCE, RADAR, RETURN
 N123 POSITION, TARGET, GRID ORIGIN
 N124 POSITION, TARGET, MERCATOR
 N125 POSITION, TARGET, REFERENCE POINT
 R126 RANGE (TARGET), APPARENT, OBSERVED
 R127 RANGE (TARGET), E-W, COMPUTED
 R128 RANGE (TARGET), E-W, CORRECTED
 R129 RANGE (TARGET), HORIZONTAL, COMPUTED
 R130 RANGE (TARGET), HORIZONTAL, CORRECTED
 R131 RANGE (TARGET), LOS, COMPUTED
 R132 RANGE (TARGET), LOS, CORRECTED
 R133 RANGE (TARGET), LOS, OBSERVED
 R134 RANGE (TARGET), N-S, COMPUTED
 R135 RANGE (TARGET), N-S, CORRECTED
 X136 TARGET (+), CATEGORY
 X137 TARGET (+), ENTITY
 X138 TARGET (+), INDICATION
 X139 TARGET (+), KILL
 X140 TARGET (+), MISSED
 X141 TARGET (+), SURVIVED
 M142 VEHICLE (MOTION), TARGET, E-W
 M143 VEHICLE (MOTION), TARGET, HORIZONTAL
 M144 VEHICLE (MOTION), TARGET, N-S
 M145 VEHICLE (MOTION), TARGET, VECTOR
 M146 VEHICLE (MOTION), TARGET, VERTICAL
 B147 WARHEAD, WATER ENTRY, COMPUTED, BEARING
 R148 WARHEAD, WATER ENTRY, COMPUTED, RANGE
 B200 BEARING (EQUIPMENT), RELATIVE, CORRECTED
 B201 BEARING (EQUIPMENT), RELATIVE, STABILIZED
 B202 BEARING (EQUIPMENT), RELATIVE, UNCORRECTED
 B203 BEARING (EQUIPMENT), RELATIVE, ERROR
 B204 BEARING (EQUIPMENT), RELATIVE, ORDER
 B205 BEARING (EQUIPMENT), TRUE, CORRECTED
 B206 BEARING (EQUIPMENT), TRUE, ERROR
 B207 BEARING (EQUIPMENT), TRUE, ORDER
 B208 BEARING (EQUIPMENT), TRUE, STABILIZED
 B209 BEARING (EQUIPMENT), TRUE, UNCORRECTED
 K210 BLIND ZONE, LAUNCHER (+), NARROW
 K211 BLIND ZONE, LAUNCHER (+), WIDE
 G212 BLIND ZONE, RADAR (+), NARROW

MIL-STD-1343(NAVY)
1 JULY 1969

G213 BLIND ZONE, RADAR (+), WIDE
 C214 CODE (+) (GUIDANCE), ORDER, MWDS (+)
 C215 CODE (+) (GUIDANCE), STATUS, MWDS (+)
 0216 DESIGNATE, EQUIPMENT (+), (TO) FCS (+)
 0217 DESIGNATE, FCS (+), (TO) EQUIPMENT (+)
 0218 DESIGNATE, FCS (+), (TO) FCS (+)
 E219 ELEVATION (EQUIPMENT), ACTUAL, CORRECTED
 E220 ELEVATION (EQUIPMENT), ACTUAL, ERROR
 E221 ELEVATION (EQUIPMENT), ACTUAL, ORDER
 E222 ELEVATION (EQUIPMENT), ACTUAL, UNCORRECTED
 E223 ELEVATION, COSRO, REFERENCE
 E224 ELEVATION (EQUIPMENT), STABILIZED, COMPUTED
 E225 ELEVATION (EQUIPMENT), STABILIZED, ERROR
 E226 ELEVATION (EQUIPMENT), STABILIZED, ORDER
 E227 ELEVATION (EQUIPMENT), STABILIZED, UNCORRECTED
 J228 JAMMING, ECM (+), ALERT
 J229 JAMMING, ECM (+), INHIBIT
 J230 JAMMING, ECM (+), READY
 J231 JAMMING, ECM (+), START
 J232 JAMMING, ECM (+), STOP
 J233 JAMMING, ECM, WARNING
 B234 LAUNCHER TRAIN-ORDER, RELATIVE
 0235 LAUNCHER TRAIN-ORDER, TRUE
 T236 MASTER SYNCHRONIZER, ORDER, BLANKING PULSE
 T237 MASTER SYNCHRONIZER, ORDER, ENERGIZE
 T238 MASTER SYNCHRONIZER, ORDER, REPETITION RATE
 T239 MASTER SYNCHRONIZER, ORDER, TIMING TRIGGER
 T240 MASTER SYNCHRONIZER, STATUS, (IN) CONTROL
 T241 MASTER SYNCHRONIZER, STATUS, REPETITION RATE
 0242 MODE (FCS), ORDER, EQUIPMENT (+)
 0243 MODE (FCS), ORDER, FCS (+)
 0244 MODE (FCS), STATUS, EQUIPMENT (+)
 0245 MODE (FCS), STATUS, FCS (+)
 T246 PULSE, CLOCK, RADAR (+)
 E247 SIGHT ANGLE
 B248 SIGHT DEFLECTION
 B249 SPOT, BEARING, LEFT
 B250 SPOT, BEARING, RIGHT
 E251 SPOT, ELEVATION, DOWN
 E252 SPOT, ELEVATION, UP
 R253 SPOT, RANGE, IN
 R254 SPOT, RANGE, OUT
 B255 TRAIN (EQUIPMENT), RELATIVE, ACTUAL
 B256 TRAIN (EQUIPMENT), RELATIVE, ERROR
 B257 TRAIN (EQUIPMENT), RELATIVE, ORDER
 B258 TRAIN (EQUIPMENT), TRUE, ACTUAL
 B259 TRAIN (EQUIPMENT), TRUE, ERROR
 B260 TRAIN (EQUIPMENT), TRUE, ORDER
 B261 TEAVERSE (EQUIPMENT)
 B300 BEARING RATE, APPARENT, OBSERVED
 B301 BEARING RATE, LOS, COMPUTED
 B302 BEARING RATE, LOS, CORRECTED
 B303 BEARING RATE, LOS, OBSERVED
 R304 DOPPLER FREQUENCY

MIL-STD-1343(NAVY)

1 JULY 1969

E305 ELEVATION RATE, APPARENT, OBSERVED
 E306 ELEVATION RATE, LOS, COMPUTED
 E307 ELEVATION RATE, LOS, CORRECTED
 E308 ELEVATION RATE, LOS, OBSERVED
 E309 ELEVATION RATE, VERTICAL, COMPUTED
 R310 RANGE RATE, APPARENT, OBSERVED
 R311 RANGE RATE, E-W, COMPUTED
 R312 RANGE RATE, E-W, CORRECTED
 R313 RANGE RATE, HORIZONTAL, COMPUTED
 R314 RANGE RATE, HORIZONTAL, CORRECTED
 R315 RANGE RATE, LOS, COMPUTED
 R316 RANGE RATE, LOS, CORRECTED
 R317 RANGE RATE, LOS, OBSERVED
 R318 RANGE RATE, N-S, COMPUTED
 R319 RANGE RATE, N-S, CORRECTED
 C400 CODE (+) (GUIDANCE), ORDER, MISSILE (+)
 C401 CODE (+) (GUIDANCE), STATUS, MISSILE (+)
 T402 CODED TIME, MISSILE (+), DC PULSED
 T403 CODED TIME, MISSILE (+), EM
 T404 CODED TIME, MISSILE (+), RELAY SIGNAL
 T405 DEAD TIME
 0406 DESIGNATE, EQUIPMENT (+), (TO) WEAPON (+)
 0407 DESIGNATE, FCS (+), (TO) WEAPON (+)
 0408 DESIGNATE, WEAPON (+), (TO) EQUIPMENT (+)
 0409 DESIGNATE, WEAPON (+), (TO) FCS (+)
 T410 FUZE (+), ORDER, SET
 0411 MODE (FCS), ORDER, WEAPON (+)
 0412 MODE (FCS), STATUS, WEAPON (+)
 T413 TIME, (OF) FLIGHT, (TO) CAPTURE
 T414 TIME, (OF) FLIGHT, (TO) FUZE BURST
 T415 TIME, (OF) FLIGHT, (TO) INTERCEPT
 T416 TIME, (OF) FLIGHT, (TO) SEPARATION
 T417 TIME, (OF) FLIGHT, (TO) TARGET
 M418 VEHICLE (MOTION), MISSILE, E-W
 M419 VEHICLE (MOTION), MISSILE, HORIZONTAL
 M420 VEHICLE (MOTION), MISSILE, N-S
 M421 VEHICLE (MOTION), MISSILE, VECTOR
 M422 VEHICLE (MOTION), MISSILE, VERTICAL
 X500 BATTLE SHORT (+), ORDER
 X501 BREAK, TRACK (+)
 G502 COAST, RADAR (+), ORDER
 U503 DEPTH CHARGE (+), FIRE, PERMISSION
 U504 DEPTH CHARGE (+), SELECTED
 Q505 DESTRICT (MISSILE), ORDER
 X506 EQUIPMENT (+) (SITUATION), ORDER, BUSY-TIME
 X507 EQUIPMENT (+) (SITUATION), ORDER, CONTROL
 X508 EQUIPMENT (+) (SITUATION), CRDER, GYRO
 X509 EQUIPMENT (+) (SITUATION), ORDER, POWER
 X510 EQUIPMENT (+) (SITUATION), ORDER, TEST
 K511 GUN TRAIN-ORDER, RELATIVE
 K512 GUN TRAIN-ORDER, TRUE
 Q513 FUZZ (+), ORDER, ABM
 X514 GYRO (+), CAGE, ORDER

MIL-STD-1343(NAVY)
1 JULY 1969

X515 GYRO (+) , UNCAGE, ORDER
 Q516 HOMING (MISSILE (+)), ACTIVE, ORDER
 Q517 HOMING (MISSILE (+)), PASSIVE, ORDER
 Q518 L TRAJECTORY, ORDER
 K519 LAUNCHER (+) (MISSILE), ORDER, STOW
 Q520 LOAD ORDER, MISSILE (+), CONTINUOUS
 Q521 LOAD ORDER, MISSILE (+) , NONE
 Q522 LOAD ORDER, MISSILE (+), ONE
 Q523 LOAD ORDER, MISSILE (+), SELECT
 Q524 MISSILE (+), CLUTTER REJECT BAND
 Q525 MISSILE (+), ENGLISH BIAS, ORDER
 Q526 MISSILE (+), GRAVITY BIAS, SELECT
 Q527 MISSILE (+), HEAD-ORDER, A
 Q528 MISSILE (+), HEAD-ORDER, B
 Q529 MISSILE (+), INCOMING/OUTGOING, SELECT
 Q530 MISSILE (+), JETTISON, (FROM) RAIL (+)
 Q531 MISSILE (+), LAUNCH
 Q532 MISSILE (+), ROLL GYRO, ORDER
 Q533 MISSILE (+) , SELECTED
 Q534 MISSILE (+), LAUNCH, INTENT (TO)
 Q535 MISSILE (+), UNLOAD, (FROM) RAIL (+)
 Q536 MISSILE (+), VNR (VARIABLE NAVIGATION RATIO), ORDER
 K537 MOUNT (GUN) (+), ALERT
 K538 MOUNT (GUN) (+), CEASE FIRE
 K539 MOUNT (GUN) (+), FIRE
 K540 MOUNT (GUN) (+), LOAD
 K541 MOUNT (GUN) (+), ORDER, STOW
 K542 MOUNT (GUN) (+), UNLOAD, BREECH
 K543 MOUNT (GUN) (+), UNLOAD, MUZZLE
 G544 RADAR (+), ORDER, BEAM (PROGRAM)
 G545 RADAR (+), ORDER, BEAM (SHAPE)
 G546 RADAR (+), ORDER, BEAM (SPREAD)
 G547 RADAR (+), ORDER, CONTACT
 G548 RADAR (+) , ORDER, CMI
 G549 RADAR (+), ORDER, SEARCH
 G550 RADAR (+), ORDER, TRACK (AIRCRAFT)
 G551 RADAR (+), ORDER, TRACK (MISSILE)
 G552 RADAR (+), ORDER, TRACK (SURFACE)
 G553 RADAR (+), ORDER, TRACK (AIDED)
 F554 RADIO (+), ORDER, CHANNEL (+)
 F555 RADIO (+), ORDER, FREQUENCY
 F556 RADIO (+), ORDER, MODULATION (+)
 K557 RAIL (+) (MISSILE), ORDER, EXTEND
 K558 RAIL (+) (MISSILE), ORDER, LOAD
 K559 RAIL (+) (MISSILE), ORDER, RETRACT
 K560 RAIL (+) (MISSILE), ORDER, SELECT
 H561 SONAR (+) , ORDER, ATTACK (SEQUENCF)
 H562 SONAR (+) , ORDER, CONTACT
 H563 SONAR (+), ORDER, PROGRAM (SEARCH)
 H564 SONAR (+), ORDER, SEARCH
 H565 SONAR (+), ORDER, TRANSDUCER (DEPTH)
 H566 SONAR (+), ORDER, TRACK (AIDED)
 U567 TORPEDO (+), APPROVED
 U568 TORPEDO, DEPTH, ORDER

MIL-STD-1343(NAVY)
1 JULY 1969

U569 TORPEDO (+), FIRE, ORDER
 U570 TORPEDO (+), FIRE, PERMISSION
 U571 TOREPDO, GYRO ANGLE, ORDER
 U572 TOREPDO (+), JETTISON, ORDER
 U573 TORPEDO (+), LOAD, (IN) TUBE (+)
 U574 TORPEDO (+), WIRE GUIDANCE, ORDER
 K575 TUBE (+) (TORPEDO), ORDER, SIGH
 X600 AMMUNITION (GUN) (+), AVAILABLE
 X601 BATTLE SHORT (+), INDICATION
 G601 COAST, RADAR (+), ALERT
 X603 COOLANT (STATUS), FLOW
 X604 COOLANT (STAIUS), LEVEL
 x605 COOLANT (STATUS), PRESSURE
 X606 COOLANT (STATUS), RESISTIVITY
 X607 COOLANT (STATUS), TEMPERATURE
 U608 DEPTH CHARGE (+), APPROVEL
 U609 DEPTH CHARGE (+), AVAILABLE
 U610 DEPTH CHARGE (+), READY, (TO) FIRE
 X611 EQUIPMENT (+) (SITUATION), STATUS, BUSY-TIME
 X612 EQUIPMENT (+) (SITUATION), STATUS, CONTROL
 X613 EQUIPMENT (+) (SITUATION), STATUS, GYRO
 X614 EQUIPMENT (+) (SITUATION), STATUS, POWER
 X615 EQUIPMENT (+) (SITUATION), STAIUS, TEST
 X616 GYRO (+), CAGED, INDICATION
 X617 GYRO (+), UNCAGED, INDICATION
 Q618 L TRAJECTORY, STATUS
 K619 LAUNCHER (+) (MISSILE), STATUS STOW
 Q620 MISSILE (+), (IN) ASSEMBLY AREA
 Q621 MISSILE (+), AVAILABLE
 Q622 MISSILE (+), BURST OBSERVED
 Q623 MISSILE (+), CAPTURE GUIDANCE, ON
 Q624 MISSILE (+), DUD, (ON) RAIL (+)
 Q625 MISSILE (+), LAUNCHED, (FROM) RAIL (+)
 Q626 MISSILE (+), LOADED, (ON) RAIL (+)
 Q627 MISSILE (+), (ON) RAIL (+), ALARM
 Q628 MISSILE (+), READY, (ON) RAIL (+)
 Q629 MISSILE (+), (IN) TRANSFER AREA
 Q630 MISSILE (+), (IN) TRANSFER AREA, READY
 K631 MOUNT (GUN) (+), FIRED
 K632 MOUNT (GUN) (+), LOADED
 K633 MOUNT (GUN) (+), READY
 K634 MOUNI (GUN) (+), STATUS, STOW
 G635 RADAR (+), STATUS, BEAM (PROGRAM)
 G636 RADAR (+), STATUS, BEAM (SHAPE)
 G637 RADAR (+), STATUS, BEAM (SPREAD)
 G638 RADAR (+), STATUS, CONTACT
 G639 RADAR (+), STATUS, CWI
 G640 RADAR (+), STATUS, *SEARCH*
 G641 RADAR (+), STATUS, TRACK (AIRCRAFT)
 G642 RADAR (+), STATUS, TRACK (MISSILE)
 G643 RADAR (+), STATUS, TRACK (SURFACE)
 G644 RADAR (+), STATUS, TRACK (AIDED)
 F645 RADIO (+), STATUS, CHANNEL (+)

MIL-STD-1343(NAVY)
1 JULY 1969

F646 RADO (+), STATUS, FREQUENCY
 Fb47 RADIO (+), STATUS, MODULATION (+)
 Kb4tl RAIL (+) (MISSILE), READY, (TO) LOAD
 K649 RAIL (+) (MISSILE), READY, PORT
 K650 RAIL (+) (MISSILE), READY, STARBOARD
 K651 RAIL (+) (MISSILE), STATUS, CLEAR
 K652 RAIL (+) (MISSILE), STATUS, EMPTY
 K653 RAIL (+) (MISSILE), STATUS, EXTENDED
 K654 RAIL (+) (MISSILE), STATUS, LOADED
 K655 RAIL (+) (MISSILE), STATUS, RETRACTED
 K656 RAIL (+) (MISSILE), STATUS, SAFE
 K657 RAIL (+) (MISSILE), STATUS, SELECT
 H658 SONAR (+), STATUS, ATTACK (SEQUENCE)
 H659 SONAR (+), STATUS, CONTACT
 H660 SONAR (+), STATUS, PROGRAM (SEARCH)
 H661 SONAR (+), STATUS, SEARCH
 H662 SONAR (+), STATUS, TRANSDUCER (DEPTH)
 H663 SONAR (+), STATUS, TRACK (AIDED)
 U664 TORPEDO (+), AVAILABLE
 U665 TORPEDO (+), DUD, (IN) TUBE
 U666 TORPEDO (+), FIRED, INDICATION
 U667 TORPEDO (+), LOADED
 U668 TORPEDO (+), READY, (TO) FIRE
 U669 TORPEDO (+), SELECTED
 K670 TUBE (+) (TORPEDO), STATUS, STOW
 K671 TUBE (+), TORPEDO, LOADED
 K672 TUBE (+), TORPEDO, READY
 K673 TUBE, TORPEDO, SELECTED
 B700 BEARING, COSMO, REFERENCE
 T701 DWELL TIME, SONAR (+)
 N702 MISSILE (+), THRUST CUTOFF, POSITION
 B703 PARALLAX (UNIT), TRAIN, EQUIPMENT (+)
 E704 PARALLAX (UNIT), ELEVATION, EQUIPMENT (+)
 E705 PHASING ORDER, RADAR (+)
 U706 TORPEDO, ADVANCE, COMPUTED
 U707 TORPEDO, COURSE, INDICATION
 U708 TORPEDO, REACH
 U709 TORPEDO, RUN, END
 Q710 VELOCITY, CUTOFF, SET
 Y800 AMMUNITION (GUN) (+), SELECTED
 Q801 ATTITUDE, PITCH, MISSILE
 Y802 ATTITUDE, PITCH, OWNERSHIP
 Q803 ATTITUDE, ROLL, MISSILE
 Y804 ATTITUDE, HEADING, OWNERSHIP
 Y805 ATTITUDE, ROLL, OWNERSHIP
 Q806 ATTITUDE, YAW, MISSILE
 Y807 ATTITUDE, YAW, OWNERSHIP
 Q808 BOOSTER (MISSILE), SEPARATION, INDICATION
 Q809 CAPTURE, MISSILE (+), ACQUISITION
 T810 CLOCK TIME
 Y811 CROSS LEVEL
 Y812 DDSOT
 X813 DENSITY, AIR
 Y814 DOOR, CONDITION

MIL-STD-1343 (NAVY)
1 JULY 1969

K815 FIRING CUTOFF
 K816 FIRING CUTOFF, LIMITS, MOUNT (+)
 I817 INTELLIGENCE, IC, INDICATING
 I818 INTELLIGENCE, IC, AUDIO
 I819 INTELLIGENCE, NTDS, DIGITAL
 J820 JAMMING, ECM (+), REQUEST
 J821 JAMMING, HIGH-BAND, CLEAR
 J822 JAMMING, LOW-BAND, CLEAR
 G823 JAMMING, RADAR (+), ALERT
 Y824 LEVEL
 Y825 MINESWEEPING, ORDER, SELECT
 Y826 MINESWEEPING, STATUS, SELECT
 K827 MIXED LOAD, LAUNCHER (+)
 N828 POSITION, OWNERSHIP, GRID ORIGIN
 N829 POSITION, OWNERSHIP, MERCATOR
 N830 POSITION, OWNERSHIP, REFERENCE POINT
 P831 POWER (ELECTRIC), REFERENCE, AC (+)
 P832 POWER (ELECTRIC), REFERENCE, DC (+)
 P833 POWER (ELECTRIC), SHIP-SERVICE, AC (+)
 P834 POWER (ELECTRIC), SHIP-SERVICE, DC (+)
 K835 ROUNDS (FIRED), NUMBER (OF), GUN (+)
 Y836 TEMPERATURE, AIR
 H837 VEHICLE (MOTION), AIRCRAFT, E-M
 H838 VEHICLE (MOTION), AIRCRAFT, HORIZONTAL
 M839 VEHICLE (MOTION), AIRCRAFT, N-S
 M840 VEHICLE (MOTION), AIRCRAFT, VECTOR
 M841 VEHICLE (MOTION), AIRCRAFT, VERTICAL
 M842 VEHICLE (MOTION), OWNERSHIP, E.-W
 M843 VEHICLE (MOTION), OWNERSHIP, HORIZONTAL
 M844 VEHICLE (MOTION), OWNERSHIP, N-S
 Y845 VELOCITY, INITIAL
 Q846 WARMUP ORDER, MISSILE (+), (OFF) RAIL (+)
 Q847 WARMUP ORDER, MISSILE (+), (ON) RAIL (+)
 Q848 WARMUP STATUS, MISSILE (+), MAXIMUM INDICATION
 Q849 WARMUP STATUS, MISSILE (+), (OFF) RAIL (+)
 Q850 WARMUP STATUS, MISSILE (+), (ON) RAIL (+)
 Q851 WARMUP STATUS, MISSILE (+), WARNING RAIL (+)
 W852 WIND, DIRECTION, APPARENT
 W853 WIND, DIRECTION, OWNERSHIP
 M854 WIND, DIRECTION, TRUE
 W855 WIND, SPEED, APPARENT
 W856 WIND, SPEED, OWNERSHIP
 W857 WIND, SPEED, TRUE

MIL-STD-1343(NAVY)
1 JULY 1969

SECTION B MODIFIERS

01	ACCEPT
02	ACTIVE
03	ALARM
04	ALERT
05	ALTITUDE
06	ANTI-AIRCRAFT
07	APPARENT
08	ASSISTANCE
09	AUTOMATIC
10	AVAILABLE
11	BEARING (+)
12	BLANKING
13	BUSY OWN-CONTROL
14	CALIBRATION
15	CASUALTY
16	COMPENSATION
17	COMPUTED
18	CORRECTED
19	COURSE
20	DESIGNATED
21	DIRECTOR (+)
22	DISTANCE
23	DRIFT
24	ECM (+)
25	EMERGENCY
26	ERROR
27	ESTIMATED
28	EXCESSIVE
29	EXCITATION
30	GATE
31	HOLD
32	IDD (INTER-DIRECTOR DESIGNATION)
33	IDENTITY (+)
34	INCREMENT
35	INDICATION (+)
36	INFRARED (+)
37	INOPERATIVE
38	INVALID
39	LATITUDE
40	LAUNCHER (+)
41	LOCAL
42	LOCKED-ON
43	LONGTUDE
44	LOW-E (MODE)
45	MANUAL
46	MARK
47	MATCHED
48	MOUNT (+)
49	NOT AVAILABLE
50	NOT LOCKED-ON

MIL-STD-1343(NAVY)
1 JULY 1969)

51	NOT READY
52	OPTICAL (+)
53	ORDER
54	PASSIVE
55	PULSE
56	RADAR (+)
57	READY
58	REFERENCE
59	RELIABLE
6G	REMOTE
61	REQUEST
62	RESET
63	RESPONSE
b4	SAMPLE
65	SELECTED
66	SIMULATED
67	SLEW
68	SMOOTHED
69	SONAR (+)
70	SPEED
71	START
72	STOP
73	SURFACE
74	SYNCHRONIZED
75	TELEVISION
76	TEST
77	TRIGGER
78	TURN
79	UNRELIABLE
80	VALID
81	WARNING
82	X-COORDINATE
83	Y-COORDINATE
84	Z-COORDINATE
85	ZERO
86	APPROXIMATE
87	HEADING

MIL-STD-1343 (NAVY)
1 July 1969

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