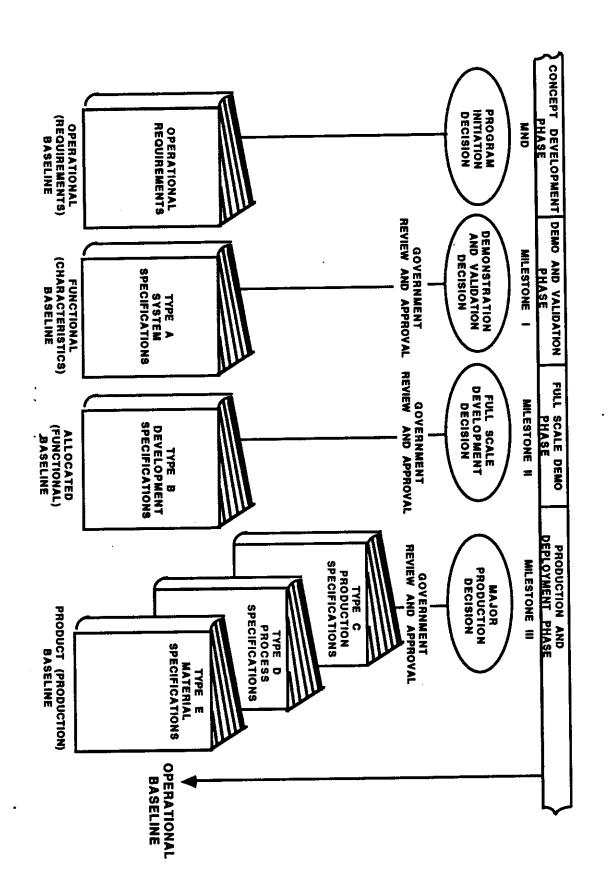
SPECIFICATIONS

BRANCH

CODE 3656



SPECIFICATION **EVOLUTION**





WHAT THE SPEC WRITER DOES

- PREPARE NEW SPECS FROM ENGINEERING NOTES
- COORDINATE REVIEW OF NEW/REVISED SPECS WITH ILITIES FOR VALIDATION PRIOR TO AUTHENICATION
- SET UP REVIEW MEETINGS FOR NEW DOCUMENTS
- PREPARE NWC GENERATED ECPs/NORs/SCNs
- REVIEW CONTRACTOR PREPARED DOCUMENTATION
- COORDINATE WITH NAVAIR ON MIL-SPECS
- MAINTAIN MASTERS UNTIL DISTRIBUTION



RESPONSIBILITIES

- REVIEW SOW FOR PROPER MIL-STDs USED IN THE PREPARATION OF SPECIFICATIONS AND ASSOCIATED DOCUMENTS
- REVIEW DOCUMENT CONTROL PLAN VALIDATION AND AUTHENICATION AND OTHER SPECIFICATION IMPACTS FOR PROPER
- REVIEWS NEW CONTRACTOR PREPARED SPECIFI-CATION NUMBERS FOR NWC SPECIFICATIONS AND AND NWC SPECIFICATIONS). PROVIDES SPECIFI-CATIONS AND DOCUMENTS (BOTH MILITARY COORDINATES WITH NAVAIR FOR MILITARY SPEC-OF MILITARY SPECIFICATION WITH NAVAIR IFICATION NUMBERS. COORDINATES AUTHENICATION



SPECIFICATION BRANCH

- WRITES/EDITS SPECIFICATIONS STANDARDS AND GUIDELINES IAW APPROPRIATE
- MIL-STD-961
- MIL-STD-490
- COORDINATES AND ENSURES THAT A SPECIFICATION HAS THE FOLLOWING:
- PROPER FORMAT
- BEEN COMPILED IAW REQUIRED STANDARDS/GUIDES
- COMPLETED FIGURES, ILLUSTRATIONS, AND TABLES
- PROPER SECURITY MARKING THROUGHOUT
- **VALIDATES NORS; SIGNS SPECIFICATIONS**
- INTERFACES WITH OTHER COGNIZANT DEPARTMENTS/ GROUPS IN ORDER TO COMPLETE THE SPECIFICATION



WHAT IS A SPECIFICATION

A SPECIFICATION IS A DOCUMENT PREPARED SPECIFICALLY CLEARLY AND ACCURATELY DESCRIBES THE ESSENTIAL TECHNICAL REQUIREMENTS FOR THE PURCHASED MATER-TO SUPPORT ACQUISITION OF A PRODUCT WHICH IAL AND ESTABLISHES INSPECTION PROCEDURES SPECIFICATION HAVE BEEN MET NECESSARY TO DETERMINE THAT THE REQUIREMENTS FOR THE PURCHASED MATERIAL COVERED BY THE



WHY A SPECIFICATION

- FEDERAL ACQUISITION REGULATIONS (FAR) IS MANDATORY FOR USE IN ALL FEDERAL CONTRACTS WITH ANYONE **OUTSIDE THE GOVERNMENT**
- FAR, PART 10 IS TITLED "SPECIFICATIONS, STANDARDS, AND OTHER PURCHASE DESCRIPTIONS"
- FAR STATES, "AGENCIES SHALL DEVELOP SPECIFICATIONS AND PURCHASE DESCRIPTIONS ..."

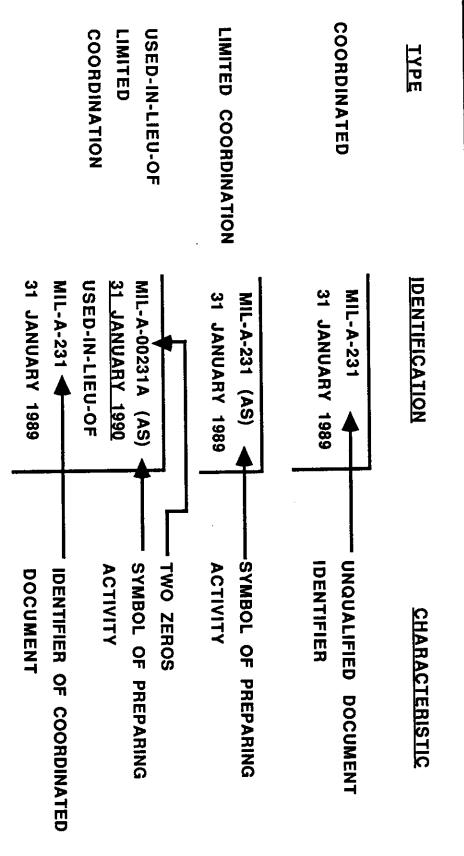


WELL, IF WE MUST HAVE A SPECIFICATION, GUESS WE MUST, BUT ...

- IS THERE MORE THAN ONE KIND OF SPECIFICATION, AND IF SO, WHICH KIND DO WE USE?
- WHAT DOES IT CONSIST OF?
- WHERE DO WE START?
- HOW DO WE KNOW WHEN IT IS COMPLETE?



DOCUMENT IDENTIFIER





"METRIC" DOCUMENT IDENTIFIER

SPECIFICATION **MILITARY** COORDINATION LIMITED DOD-A-231 (AS) METRIC SYMBOL SIGNIFYING A CHARACTERISTIC METRIC DOCUMENT SYMBOL SIGNIFYING A

DOCUMENT

LIMITED COORDINATION



WHAT KIND

DEFENSE STANDARDIZATION MANUAL DOD 4120.3-M STATES

- MIL-SPECs SHALL BE IN ACCORDANCE
- PROGRAM PECULIAR SPECIFICATIONS SHALL BE IN ACCORDANCE WITH WITH MIL-STD-961 (I.E., MIL-E-85462) MIL-STD-490 (I.E., AS-5027, WS-4562)



MILITARY SPECIFICATIONS/STANDARDS/HANDBOOKS PREPARED AND MAINTAINED AT NWC

TYPE

USE

SPECIFICATION MIL-STD-490 AS A GUIDE) (IAW MIL-STD-961, USING

STANDARDS

(IAW MIL-STD-962)

0

MENTS ARE MET

DESCRIBE MINIMUM REQUIREMENTS NEEDED

AND INSPECTIONS TO ENSURE THE REQUIRE-TO SATISFY GOVERNMENT'S INTENDED USE

0 ESTABLISH ENGINEERING AND TECHNICAL REQUIREMENTS FOR PROCESSES, PROCEDURES, PRACTICES, AND METHODS ADOPTED AS STANDARD

HANDBOOK (IAW MIL-STD-962)

TO CONTAIN STANDARD PROCEDURAL, ENGINEERING, OR DESIGN DATA RELATING TO MATERIAL AND ASSOCIATED PROCESSES, PRACTICES, AND METHODS



PROGRAM PECULIAR SPECS

PREPARED IN THE SAME MANNER AS MIL-SPEC (NWC-1820, AS-4125, AND WS-4125) (COMBINATION OF MIL-STD-490 AND MIL-STD-961)

PREPARED IN ACCORDANCE WITH MIL-STD-490 ONLY (AS-5027, WS-4562)

. .



PROGRAM PECULIAR SPECIFICATIONS PREPARED AND MAINTAINED BY NWC

TYPE

USE

- NAVAL WEAPONS CENTER (NWC)
- AIR SYSTEM (AS)
- WEAPON SYSTEM (WS)

TO PREPARE SYSTEM, DEVELOPMENT AND PRODUCT SPECIFICATIONS FOR ONE TIME PROCUREMENT OR PROGRAM PECULIAR SPECIFICATIONS

- ORDNANCE SYSTEM (OS)
- AIR DATA (AD)
- ORDNANCE DATA (OD)
- AIR REQUIREMENTS (AR)
- WEAPON REQUIREMENT (WR)

TO DOCUMENT ADVISORY INFORMATION SUCH AS AN ASSEMBLY PROCEDURES

PREPARED BY NAVAIR FOR SPECIFIC PROCUREMENT PURPOSES

3656-89-A-0006

SPECIFICATION FORMS

- MIL-S-83490 GIVES THE OPTION OF MIL-STD-490 OR DOD MANUAL 4120.3-M FOR PREPARATION OF SPECIFICATIONS
- DOD MANUAL 4120.3-M, CHAPTER III SAYS, "SPECIFICATIONS SHALL SHALL BE PREPARED IN ACCORDANCE WITH MIL-STD-962 BE PREPARED IN ACCORDANCE WITH MIL-STD-961; STANDARDS AND HANDBOOKS
- THE SPECIFICATION FORM IS ALSO ADDRESSED IN ACCORDANCE WITH MIL-S-83490

		×	LEVEL 3
	×		LEVEL 2
			LEVEL 1
FORM 2	FORM 1b	FORM 1a	DOC LEVEL

● FORM 1 - SPECIFICATIONS TO MILITARY STANDARDS

- FORM 1a WITH MAXIMUM FORMAT CONTROL (MIL-STD-490 OR DOD 4120.3M) FORM 1b - WITH LIMITED FORMAT CONTROL (MIL-STD-490 OR DOD 4120.3M)
- FORM 2 SPECIFICATIONS TO COMMERCIAL PRACTICES WITH SUPPLEMENTAL MILITARY REQUIREMENTS
- FORM 3 SPECIFICATIONS TO COMMERCIAL PRACTICES

SPECIFICATION AVAILABILITY

SPECIFICATIONS
AND
STANDARDS
(DODISS)

SPECIFICATIONS AND STANDARDS

AND ADOPTED INDUSTRY DOCUMENTS

MIL-BULL-544
SPECIFICATIONS
AND
STANDARDS
APPROVED BY
NAVAIR

SPECIFICATIONS, STANDARDS
ADOPTED INDUSTRY DOCUMENTS
AND PURCHASE DESCRIPTIONS
IN WHICH NAVAIR HAS AN INTEREST



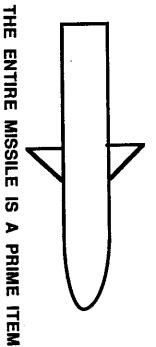
WHICH ONE!



PRIME AND CRITICAL ITEMS

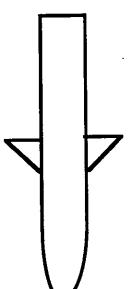
PRIME ITEM

- THE ENTIRE (WHOLE) OF SOMETHING
 THAT CONSISTS OF CRITICAL ITEMS
 (SUCH AS ALL-UP-ROUND)
- A COMPLEX CRITICAL ITEM COULD BE A PRIME ITEM



OCRITICAL ITEM

- A COMPONENT OR GROUP OF COMPONENTS THAT A PRIME ITEM CANNOT FUNCTION WITHOUT
- PRIME ITEMS ARE COMPRISED OF CRITICAL
 ITEMS



THE GUIDANCE SECTION IS A CRITICAL ITEM TO THE MISSILE. HOWEVER, THE GUIDANCE SECTION ITSELF IS MADE UP OF CRITICAL ITEMS; SO, THE GUIDANCE SECTION COULD ALSO BE A PRIME ITEM



TYPES OF SPECIFICATIONS

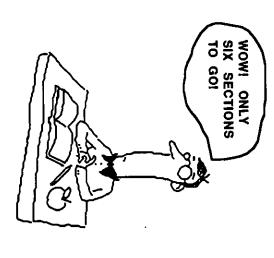
- SYSTEM
- DEVELOPMENT
- PRIME, CRITICAL, AND NONCOMPLEX ITEMS
- COMPUTER PROGRAM
- PRODUCT
- **FUNCTION PRIME AND CRITICAL ITEMS**
- FABRICATION

 PRIME, CRITICAL, AND NONCOMPLEX ITEMS
- **PROCESS**
- **MATERIAL**



WHAT DOES A SPECIFICATION CONSIST OF?

SIX SECTION SPECIFICATIONS SHALL CONTAIN SECTIONS FOR:



- SCOPE
- APPLICABLE DOCUMENTS
- REQUIREMENTS
- DACKACINO

QUALITY ASSURANCE PROVISIONS

PACKAGING

NOTES



SECTION ONE - SCOPE

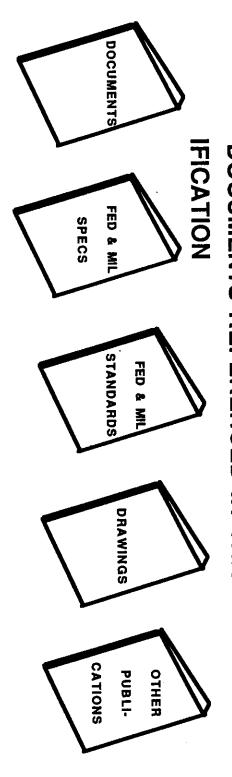
A GENERAL INFORMATION STATEMENT SUCH AS:

AND TEST REQUIREMENTS FOR THE PERFORMANCE, DESIGN, DEVELOPMENT, RF TRANSMITTER, HEREAFTER REFERRED "THIS SPECIFICATION ESTABLISHES THE TO AS THE SET."



SECTION TWO APPLICABLE DOCUMENTS

THIS SECTION IS A LISTING OF ALL OF THE **DOCUMENTS REFERENCED IN THIS SPEC-**





SECTION THREE - REQUIREMENTS

THE ESSENTIAL REQUIREMENTS AND DESCRIP-BY THE SPECIFICATION RELIABILITY, ETC. OF THE CONFIGURATION ITEM, MATERIAL OR PROCESSES COVERED TIONS THAT APPLY TO PERFORMANCE, DESIGN,