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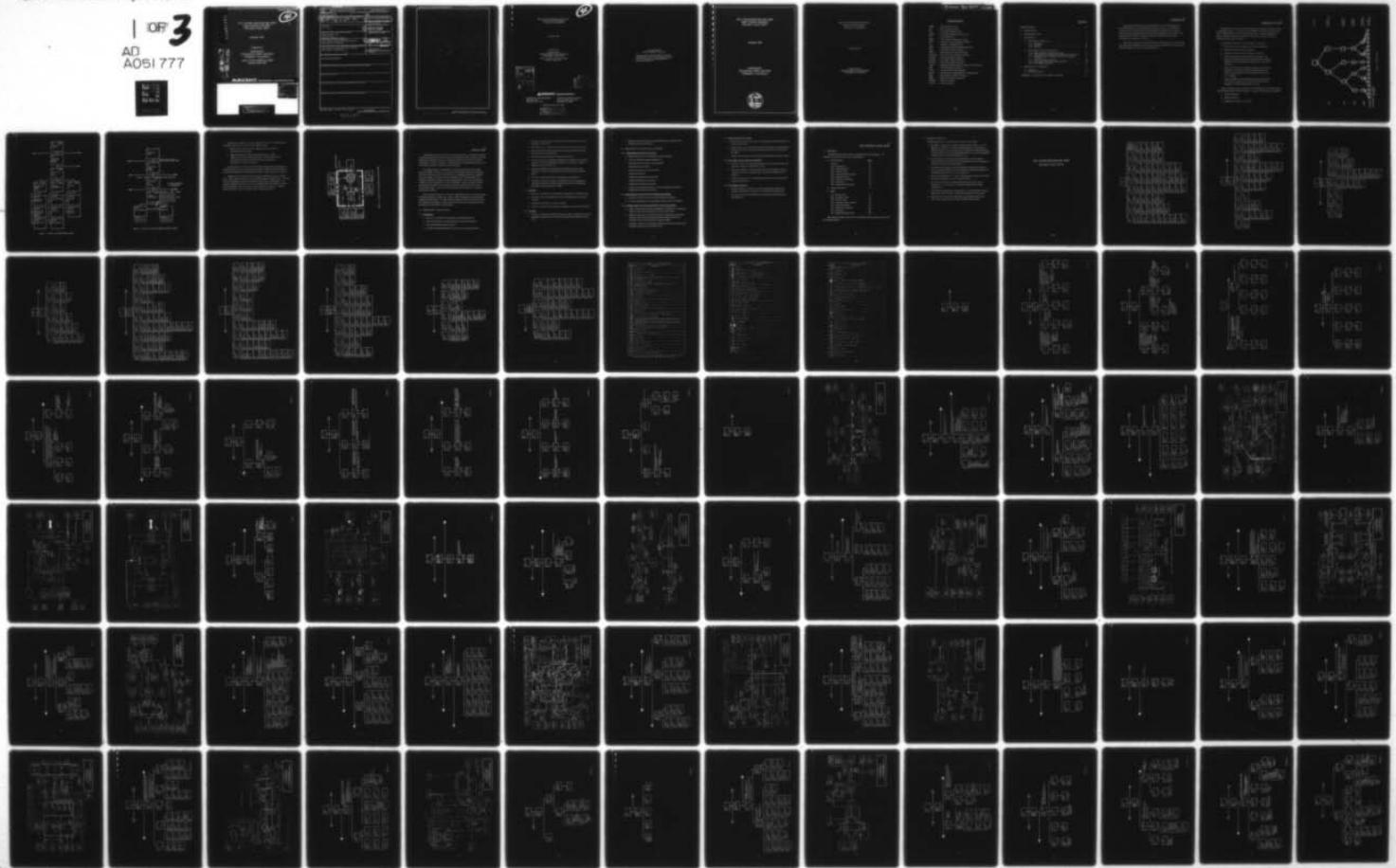
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SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR D--ETC(U)
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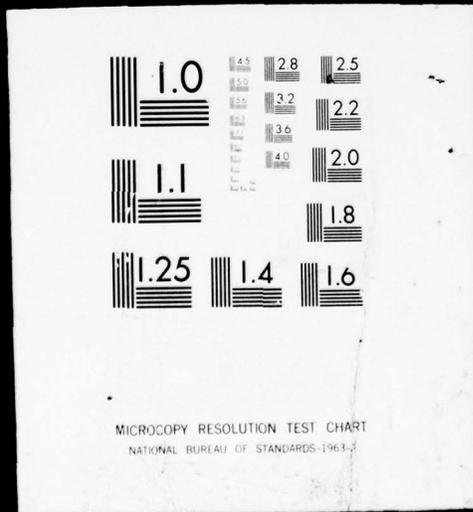
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SHIP SYSTEMS DEFINITION AND INDEX
(SWBS STAGING DIAGRAMS)
FOR DDG-2 CLASS SHIPS

November 1976

Prepared for
PERA(CRUDES)
PHILADELPHIA NAVAL SHIPYARD
Philadelphia, Pennsylvania
Under Contract N00140-74-D-0090
Delivery Order 0017

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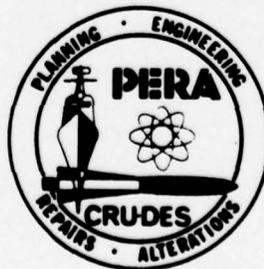
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ABBREVIATIONS

ASROC	- Anti-submarine rocket
ASW	- Anti-submarine warfare
CDC	- Component Dictionary Code
COSAL	- Coordinated Shipboard Allowance List
CPO	- Chief petty officer
CSMP	- Current Ship's Maintenance Project
DART	- Detection, Action, Response Technique
EIC	- Equipment identification code
EOSS	- Equipment Operational Sequencing System
FMP	- Fleet Modernization Program
MDCS	- Maintenance Data Collection System
NAVELEX	- Naval Electronics Systems Command
NAVSEA	- Naval Sea Systems Command
NAVSEC	- Naval Ships Engineering Center
NAVSUP	- Naval Supply System Command
PERA	- Planning and Engineering for Repairs and Alterations
PMS	- Planned Maintenance System
POT&I	- Preoverhaul Test and Inspection
SECAS	- Ship Equipment Configuration Accounting System
SSDI	- Ship Systems Definition and Index
SWBS	- Ship Work Breakdown Structure
SYSCOM	- Systems command
TYCOM	- Type commander

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I INTRODUCTION

The Ship Systems Definition and Index (SSDI) is an orderly identification and structuring of the systems and subsystems that make up a ship. In defining ship systems as well as their boundaries and interfaces, the SSDI creates a common language for communicating information about ship configurations. The SSDI is thus useful to all Navy activities involved in the life-cycle operation, maintenance, modernization, and support of ships.

This report discusses the general properties of SSDIs (Section 2), and the many ways SSDIs can be utilized by the various Navy activities (Section 3); and presents the SSDIs developed for the DDG-2 ship class (Section 4).

PROPERTIES OF SSDI

The hierarchical concept on which the Ship Systems Definition and Index is based is illustrated in Figure 1. As can be seen, the SSDI is structured such that the summation of SSDI items at any level defines the total ship. An actual application of Figure 1, showing a typical ship breakdown from the major system to the sub-subsystem level, is shown in Figure 2.

As illustrated by Figures 1 and 2, the SSDI is structured to:

- a. Provide a multi-level breakdown of a ship's configuration.
- b. Completely define the ship at each level.
- c. Contain no redundancies in its definition of the ship.
- d. Utilize the Ship Work Breakdown Structure (SWBS). This provides a standard language based on the same nomenclature and three-level coding system mandatory for use on a Navy-wide basis.
- e. Utilize a standard Navy Component Dictionary Code list (see Appendix A) for assigning fifth-level identification codes. The last two characters of the identifier are from this list, e.g., 2551M7.
- f. Tailor the SWBS to the configuration of a specific ship class. The ship class diagrams can in turn be tailored to the configuration of individual ships within the class.

Figure 3 extends a portion of Figure 2 to an additional level of detail to demonstrate the information provided in the SSDI. As shown, the following are identified:

- a. System equipments
- b. System boundaries
- c. Shipboard maintenance work centers

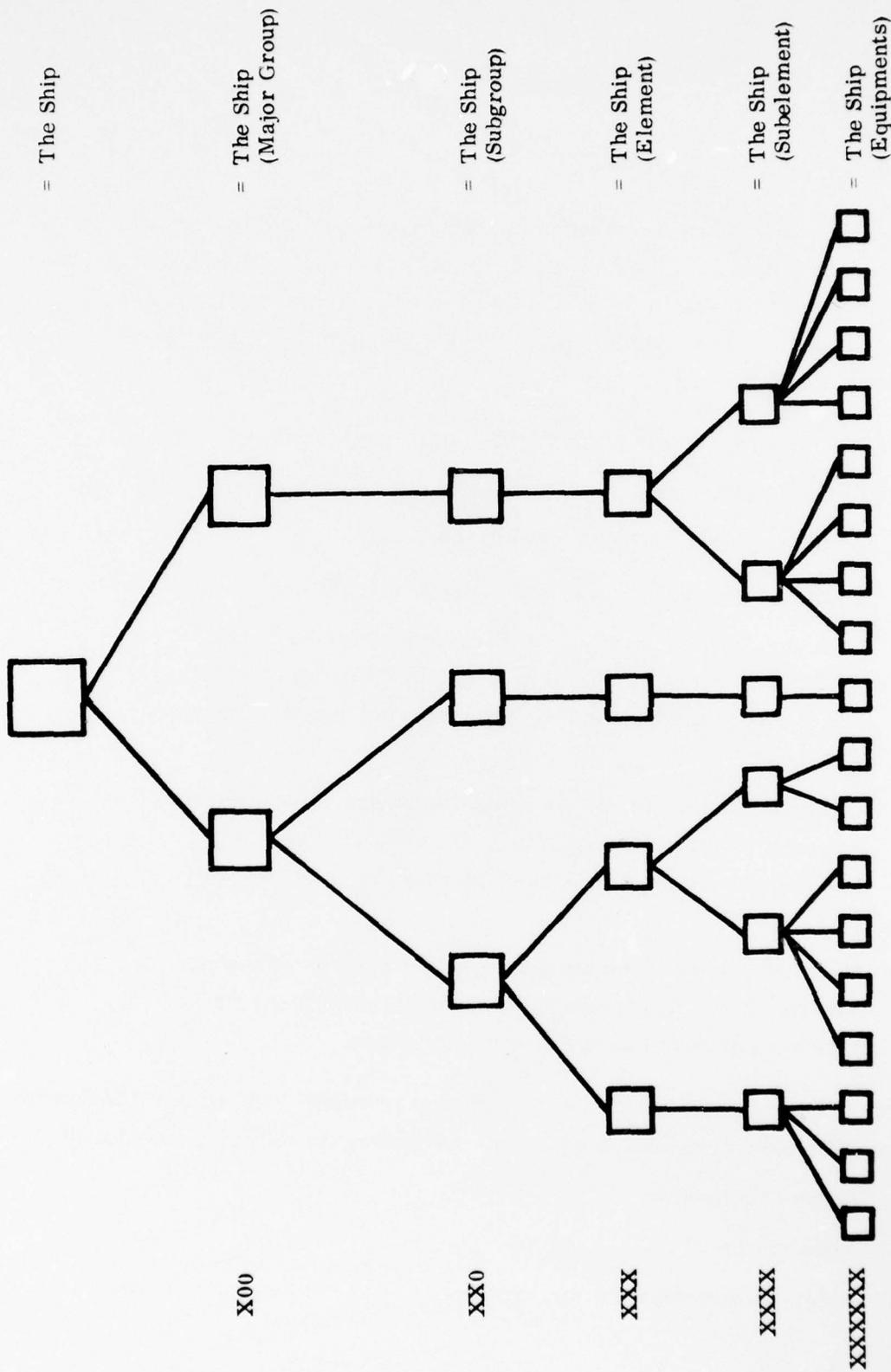


Figure 1. SSDI Concept

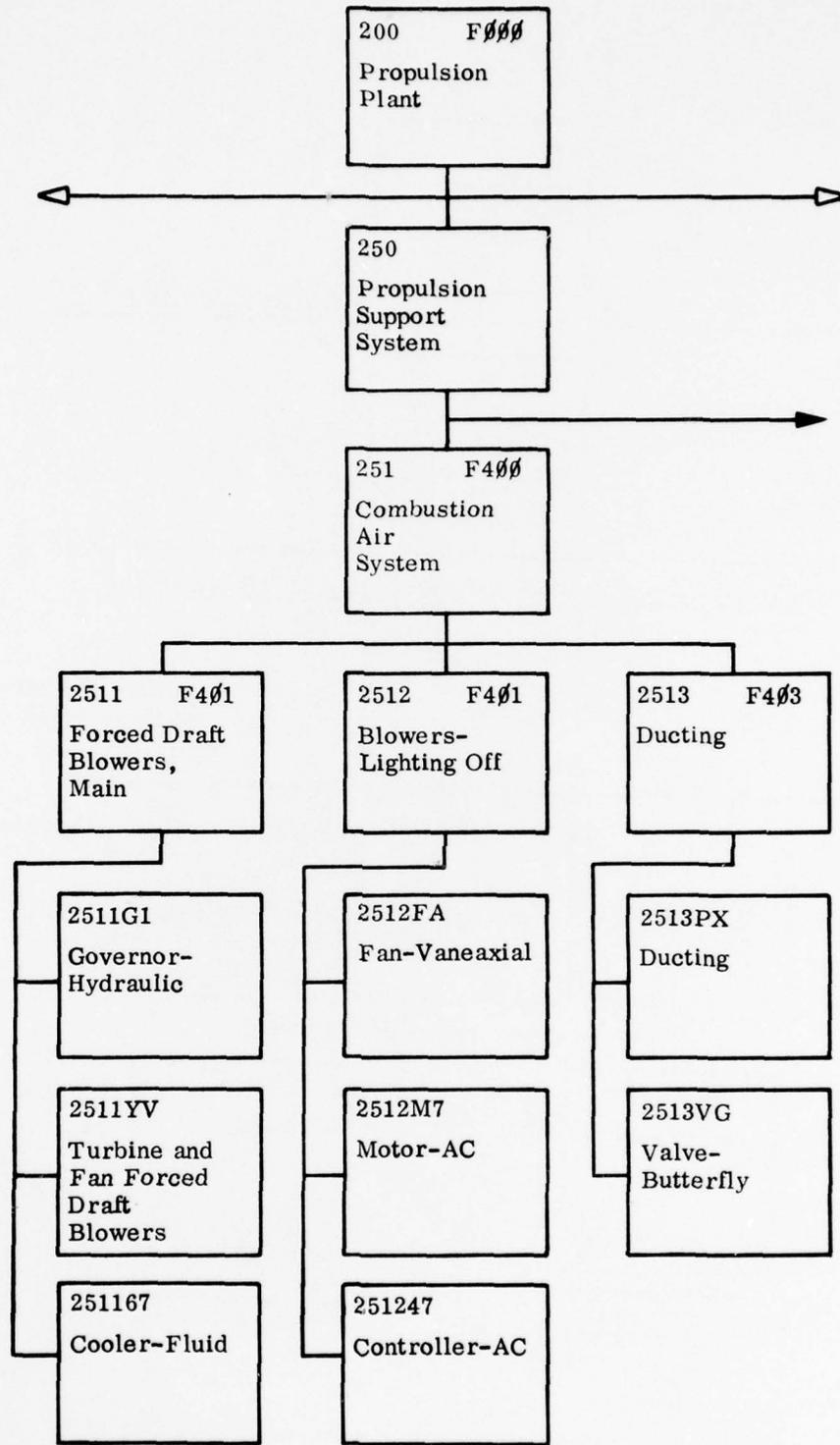


Figure 2. Portion of a Typical Ship's System

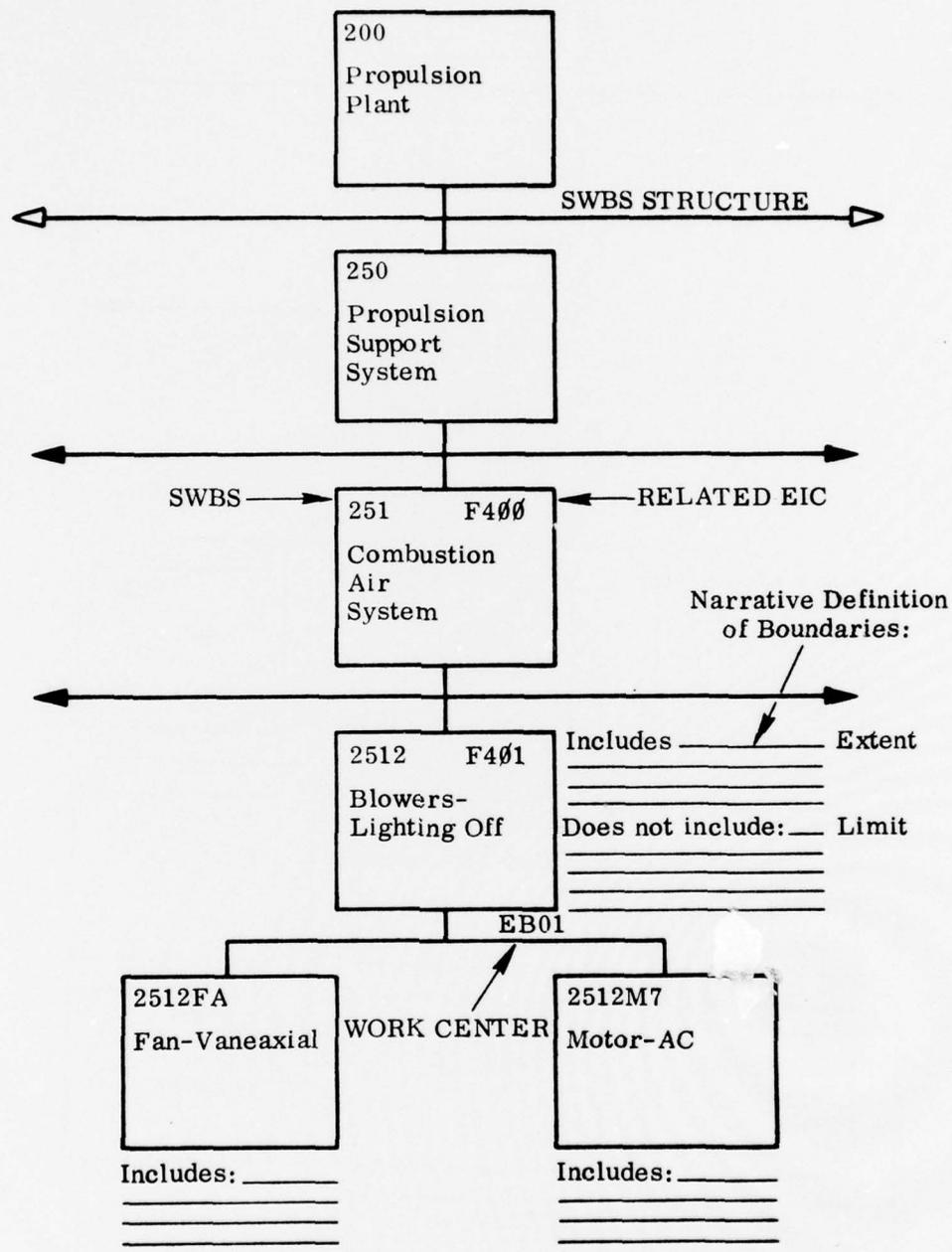


Figure 3. Example of System Diagrams Included in SSDI

In some cases, notably for the more complicated systems, the SSDI provides still further information in the form of line diagrams that:

- a. Show the major hardware items within the system boundaries and their interrelationships.
- b. Depict graphically the verbal descriptions given on system diagrams for selected SWBS-coded items. Those systems which are complex and interface with other complex systems are diagrammed as Figure 4 indicates.

In a line diagram, solid lines with the system boundary denote equipments or components which are part of that particular system. Dashed lines show interfaces between those equipments/components and elements of other systems (see Figure 4).

Although some line diagrams show functional relationships, that is not their intent. Their specific purpose is to aid in the identification of ship systems. For that reason the schematics are greatly simplified from the actual configuration. For example, although there may be two or more identical forced-draft blowers used in a condensate system, only one is shown on the schematic (see Figure 4). This is because all blowers of the same type are part of the same system.

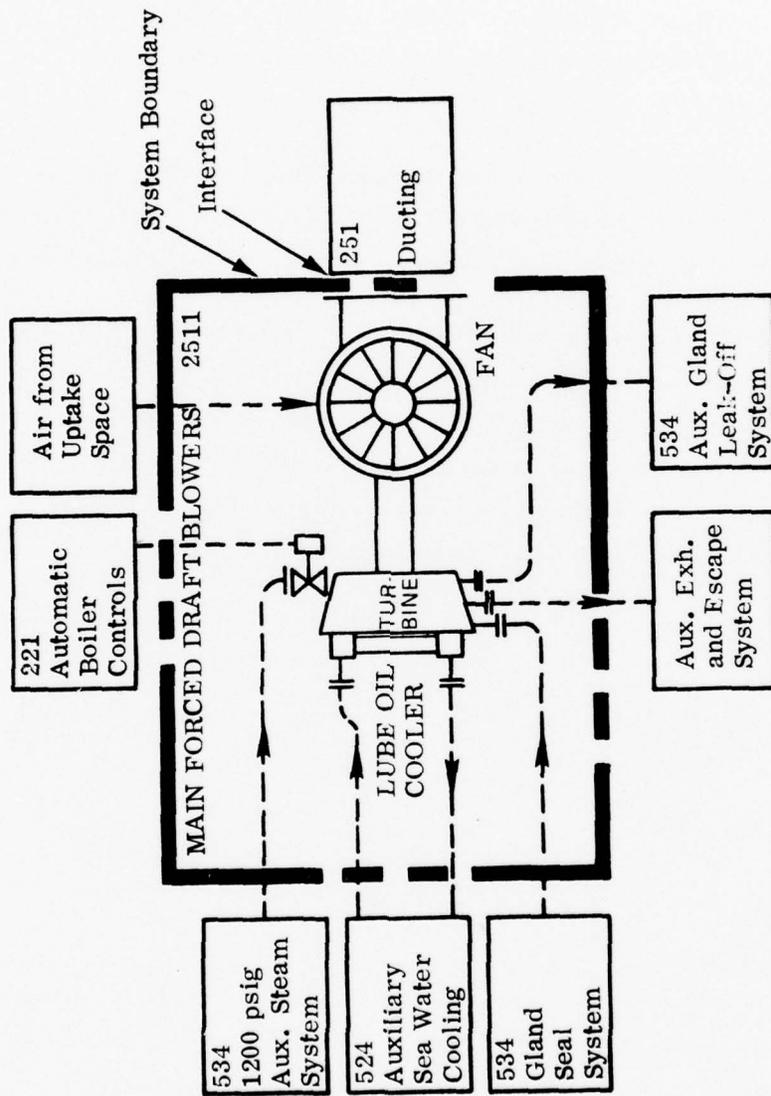


Figure 4. Example of Line Diagrams Included in SSDI

3 USES OF SSDI

Throughout a ship's life, ship's force personnel submit a vast amount of system, equipment, and parts information to their type commander and fleet support activities. Requests for alteration, reports of maintenance action, work requests, and parts requisitions are but a few examples. In each instance the submitted information must be related to a specific, definable portion of the ship.

In carrying out their responsibilities, the type commander and the support activities (PERAs, shipyards, etc.) must not only identify a specific item within the total ship, but also be aware of its interfaces. In planning alterations or modifications, for example, one must be able to identify the various systems that will be affected by a particular change to a ship's configuration. Also, when preparing for overhaul or other availabilities, the type commander, PERA, and repair activities must be able to organize a work package on the basis of specific as well as inter-related ship systems. This is done to ensure that the work package is completely and effectively defined.

Since so many activities are involved in supporting the ship, it is necessary that both ship and support personnel use a single, uniform language when communicating configuration information. The Ship Systems Definition and Index provides this common language by describing a specific ship in terms common to all ships of the fleet. Potential uses of the SSDI are outlined below.

3.1 SSDI SUPPORT TO SHIP'S FORCE

3.1.1 Maintenance

- a. Serves as a checklist for planning and conducting inspections.
- b. Provides the basis for comparing repair items with alterations.
- c. Aids in establishing repair priorities.
- d. Assists in identifying shipyard, ship's force, and tender interfaces.

- e. Assists in making manpower assignments by ensuring that all systems of the ship are considered.
- f. Aids ship's force in "buttoning up" all systems for post-repair testing.
- g. Aids in alteration planning and analysis by showing possible interfaces in terms of various ship systems.
- h. Aids in standardizing shipboard validation procedures.
- i. Provides a means for identifying deficiencies in shipboard documentation such as the Coordinated Shipboard Allowance List (COSAL), Planned Maintenance System (PMS), etc.
- j. Assists in identifying related Equipment Identification Codes (EIC) necessary for CSMP and Maintenance Data Collection System (MDCS) inputs.
- k. Provides a standard language for maintenance documentation.
- l. Provides a common set of system descriptions for the development of maintenance instructions (PMS) and operating instructions (Equipment Operational Sequencing System, EOSS).

3.1.2 Operation

- a. Serves as a checklist for determining the completeness of EOSS coverage.
- b. Provides a means of identifying the interrelationships among operating systems.
- c. Identifies the boundaries for system testing.
- d. Provides a means of determining test equipment and support requirements.

3.1.3 Training

- a. Provides a disciplined method for displaying a ship's configuration, thereby identifying training requirements from the equipment through the system level.

- b. Supports training shipboard operation/maintenance personnel in ship systems and system interfaces.

3.2 SSDI SUPPORT TO OTHER NAVAL ACTIVITIES

3.2.1 PERAs/Shipyards/Industrial Activities

- a. Defines ship systems for alteration and repair planning.
- b. Provides a standard indexing language for:
 - Ship Alteration and Repair Package (SARP)
 - Specification preparation
 - Cost estimating and cost progressing
 - Drawing numbering
 - Material identification and ordering
 - POT&I planning and organization
 - Management information systems
- c. Assists in determining priorities of work by displaying the affected equipment in relation to its system.

3.2.2 Ship Equipment Configuration Accounting System (SECAS)

- a. Provides a standard structure for total shipboard validation.
- b. Provides information for determining the desired level of validation.

3.2.3 Technical Systems Commands (NAVSEA, NAVELEX, NAVSUP)

- a. Aids in determining the SWBS identification of alterations for inclusion in shipalt records and subsequently in other Navy data bases.
- b. Identifies ship systems such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the Fleet Modernization Program (FMP).
- c. Provides a means for ensuring that standard failure-data correlation and analysis is performed to the desired level.

3.2.4 Type Commanders (TYCOMs)

- a. Aids in determining work priorities by displaying the affected equipment in relation to its system.
- b. Identifies the system such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the FMP.
- c. Enables the TYCOM to properly identify and budget the system for repairs.

3.2.5 Naval Ships Engineering Center (NAVSEC)

- a. Provides a vehicle for ensuring that standard failure-data correlation and analysis is performed to the desired level.
- b. Defines the systems for design consideration and subsequent corrective measures such as the Detection, Action, Response Technique (DART) program.
- c. Provides information for determining the required level of repair parts support requirements.

3.2.6 Fleet Support Activities

- a. Identifies shipboard systems as an aid in determining personnel and material requirements in response to solving specific ship problems.
- b. Serves as a tool for establishing required support capabilities (people and equipment).

SSDI FOR DDG-2 CLASS SHIPS

4.1 SSDI INDEX

The SSDI for DDG-2 class ships is presented on the following pages. The diagrams are presented in the order indicated below.

a. Index Diagrams	<u>Page</u>
Overall	17
100 - Hull Structure	18
200 - Propulsion Plant	19
300 - Electric Plant	20
400 - Command and Surveillance	21
500 - Auxiliary Systems	22
600 - Outfit and Furnishings	23
700 - Armament	24
800 - Integration/Engineering	25
b. Legend of Symbols	27
c. SSDIs	
100 - Hull Structure	31
200 - Propulsion Plant	43
300 - Electric Plant	85
400 - Command and Surveillance	99
500 - Auxiliary Systems	137
600 - Outfit and Furnishings	189
700 - Armament	213
800 - Integration/Engineering	229

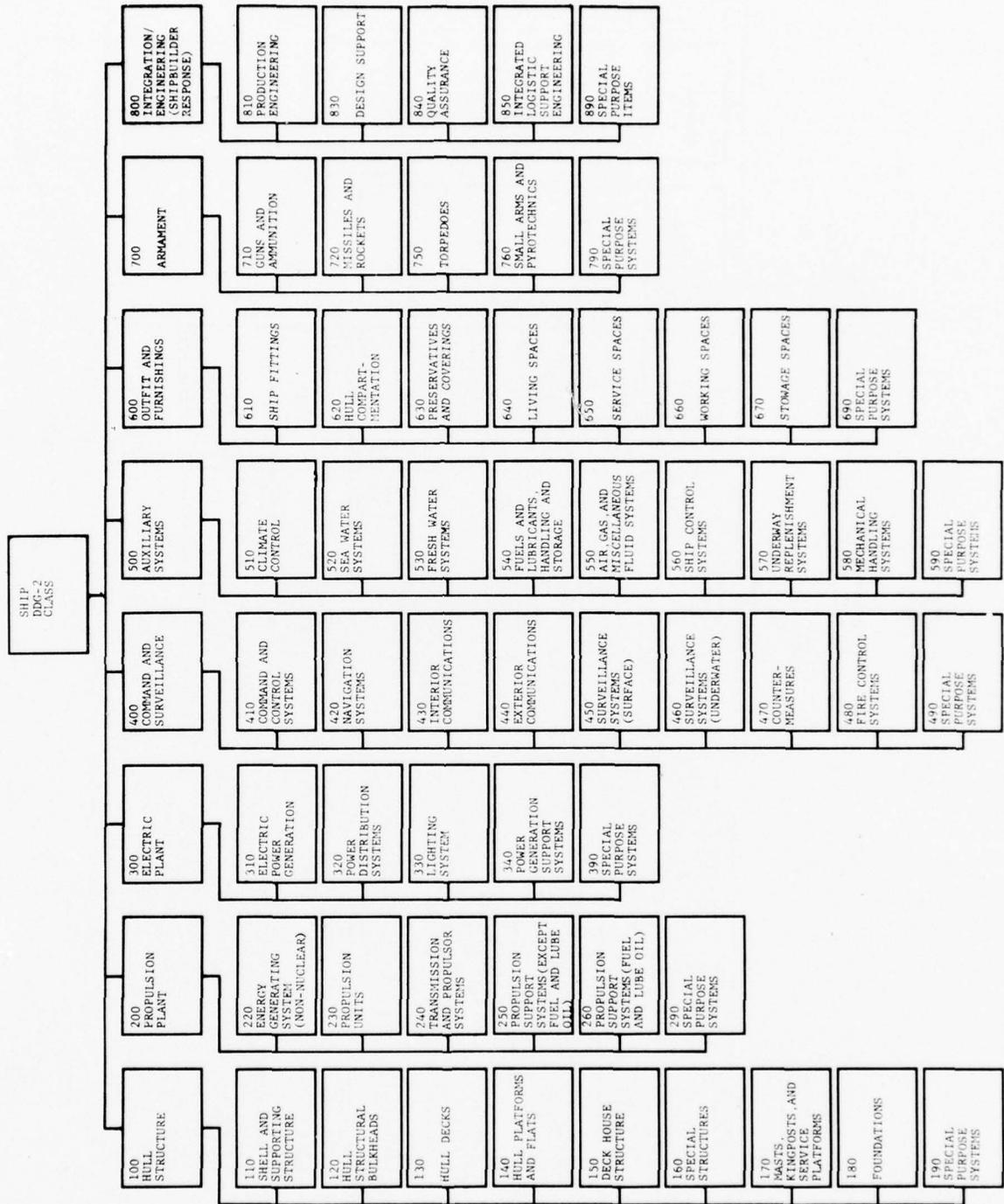
The Legend of Symbols supports the line diagrams that accompany certain of the ship system diagrams.

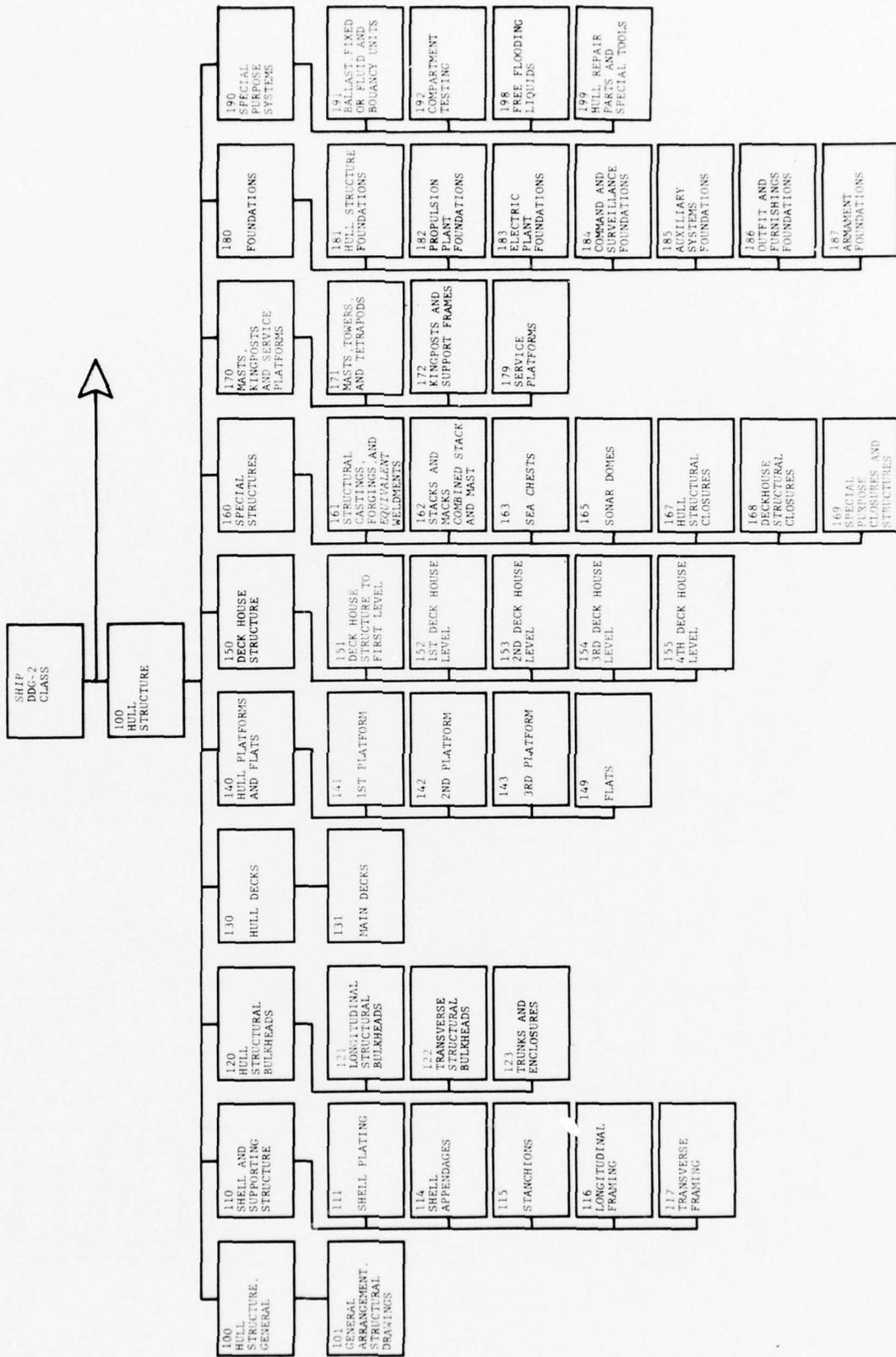
4.2 GENERAL COMMENTS

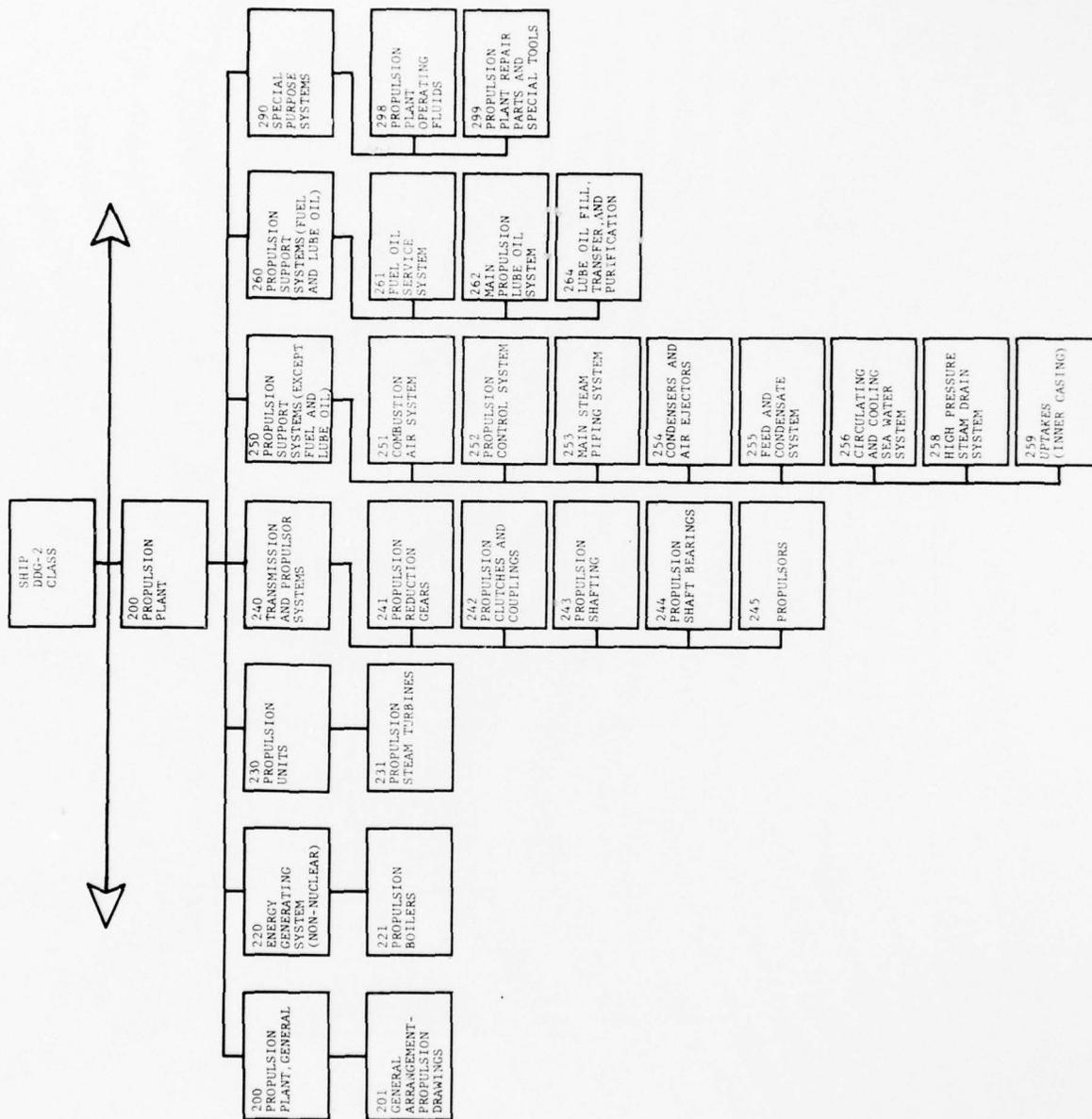
The following general comments apply to the DDG-2 class SSDIs:

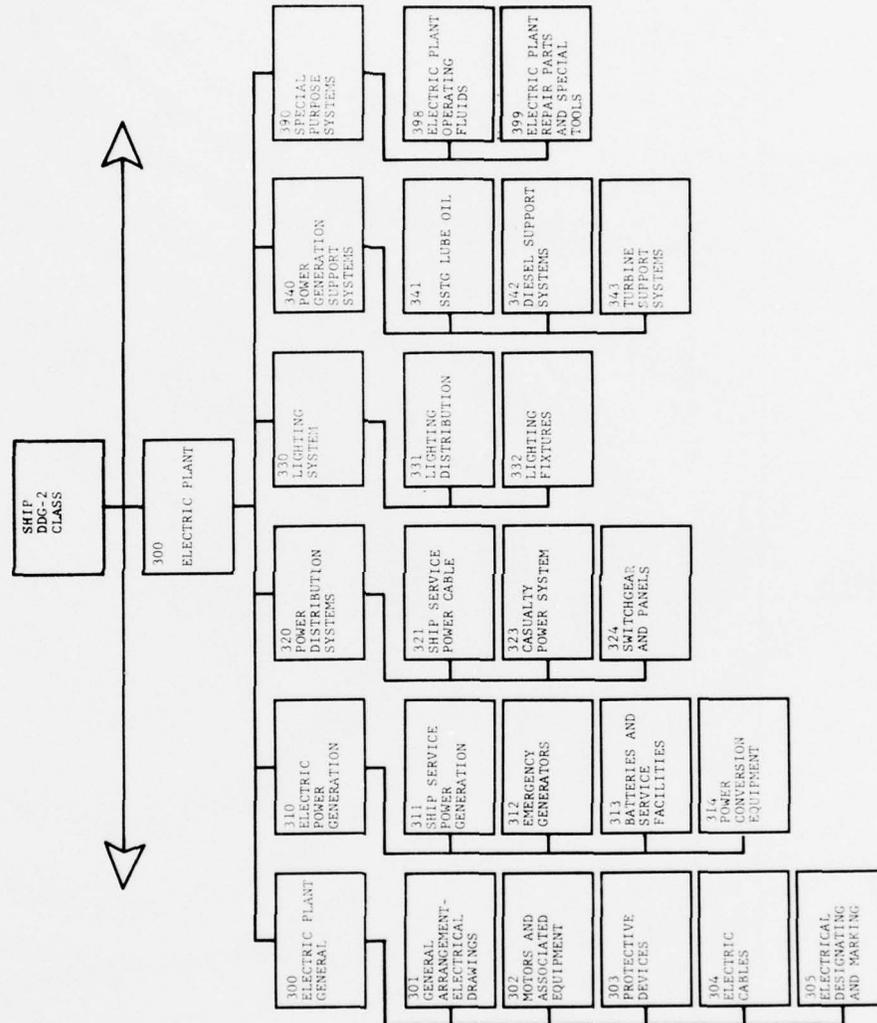
- a. This SSDI is structured to encompass the entire DDG-2 class, i. e., all identified combinations of systems and equipments have been included. Individual ships will not necessarily have all identified components because of such conditions as ship alterations that have/have not been accomplished, variations due to construction differences, etc.
- b. In each WBS group, elements X01 through X09 are used for general requirements, and element X98 for operating liquids. These nonhardware elements are indicated by dashed blocks.
- c. To maintain the principle of having equipments/components at the fifth level, some element titles have been repeated at the fourth and fifth levels and appropriately numbered, e. g., element 115.
- d. The term "With System", or "W.S.", indicates that the item is coded with the system of which it is a part or which it serves.
- e. EIC cross-references are entered only blocks with a direct cross-reference, i. e., same system, subsystem, equipment as an SWBS classification.
- f. Work center assignments are representative. Use of the SSDI for specific ships of the class will require verification of applicable work centers.
- g. Elements where no specific equipments can be identified at this time (e. g., future installations) are shown by double-dashed blocks.

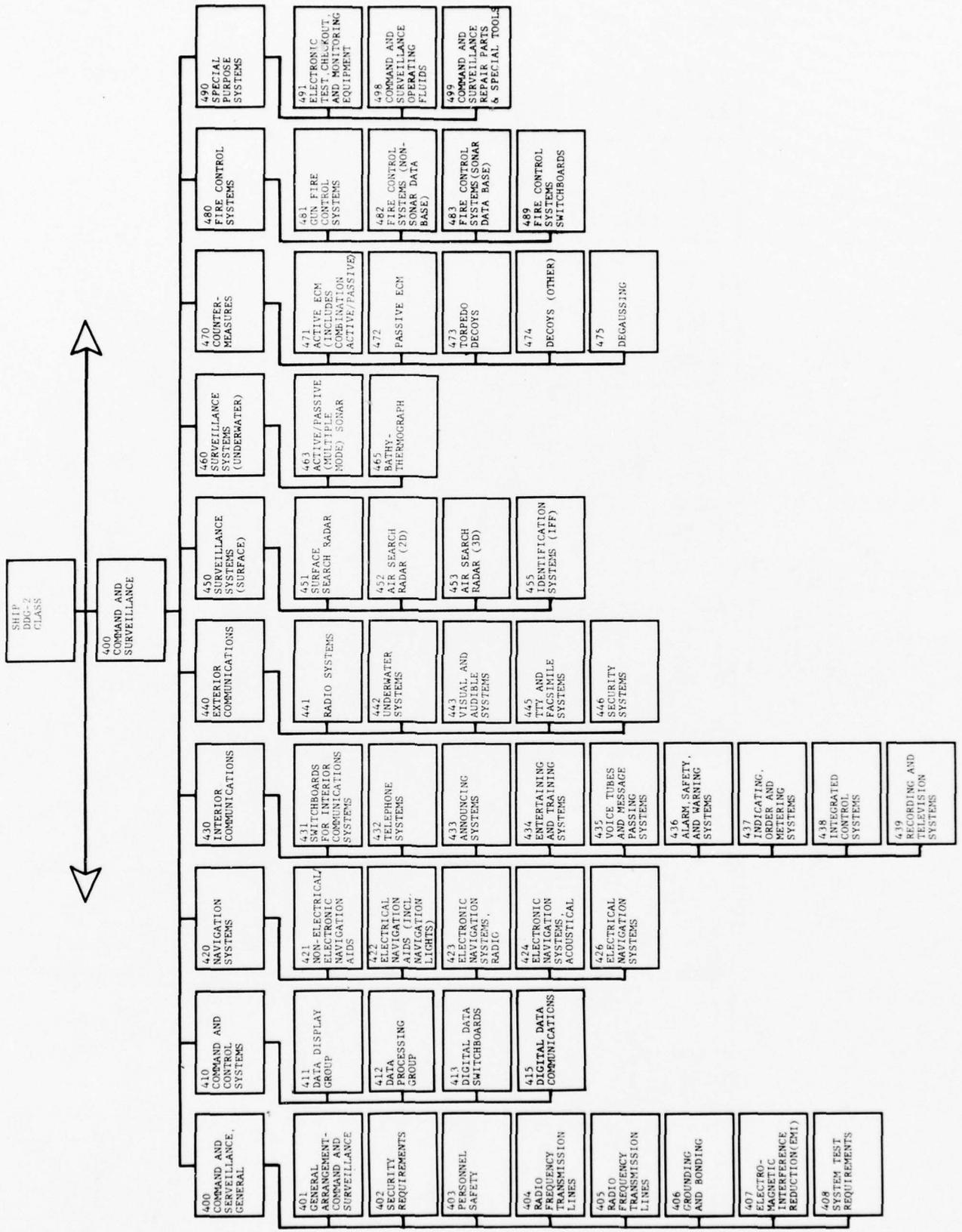
SHIP SYSTEM DEFINITION AND INDEX
FOR DDG-2 CLASS SHIPS

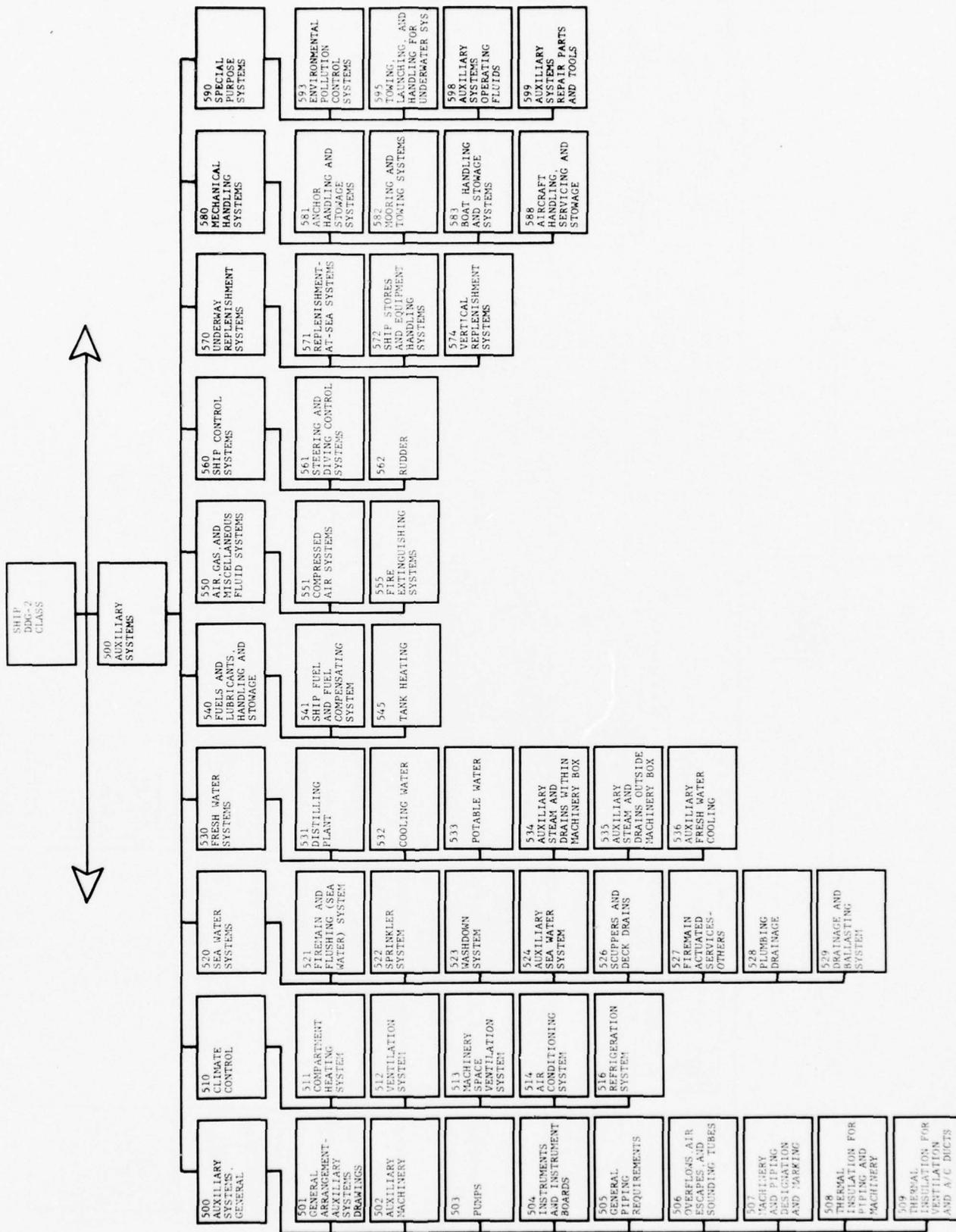


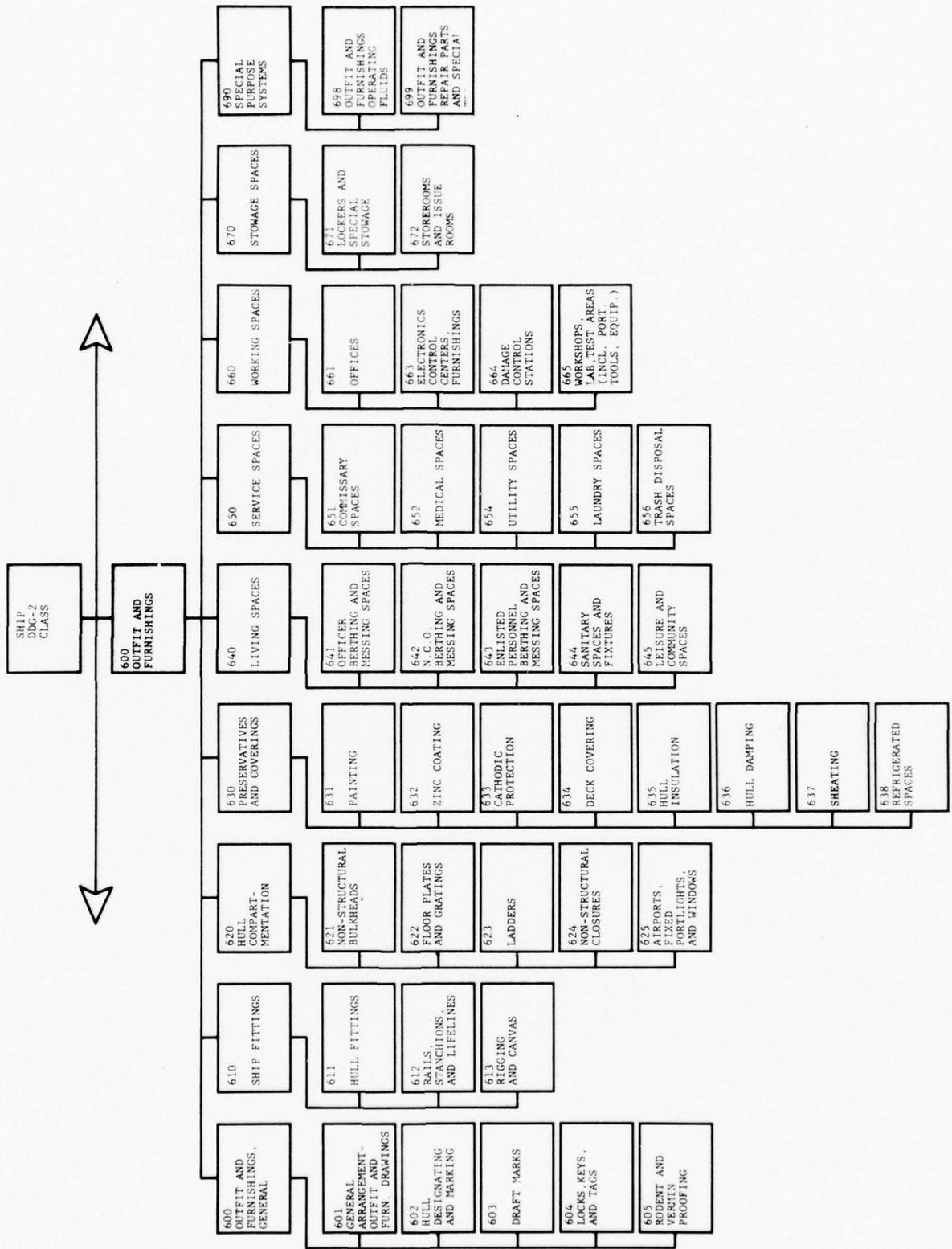


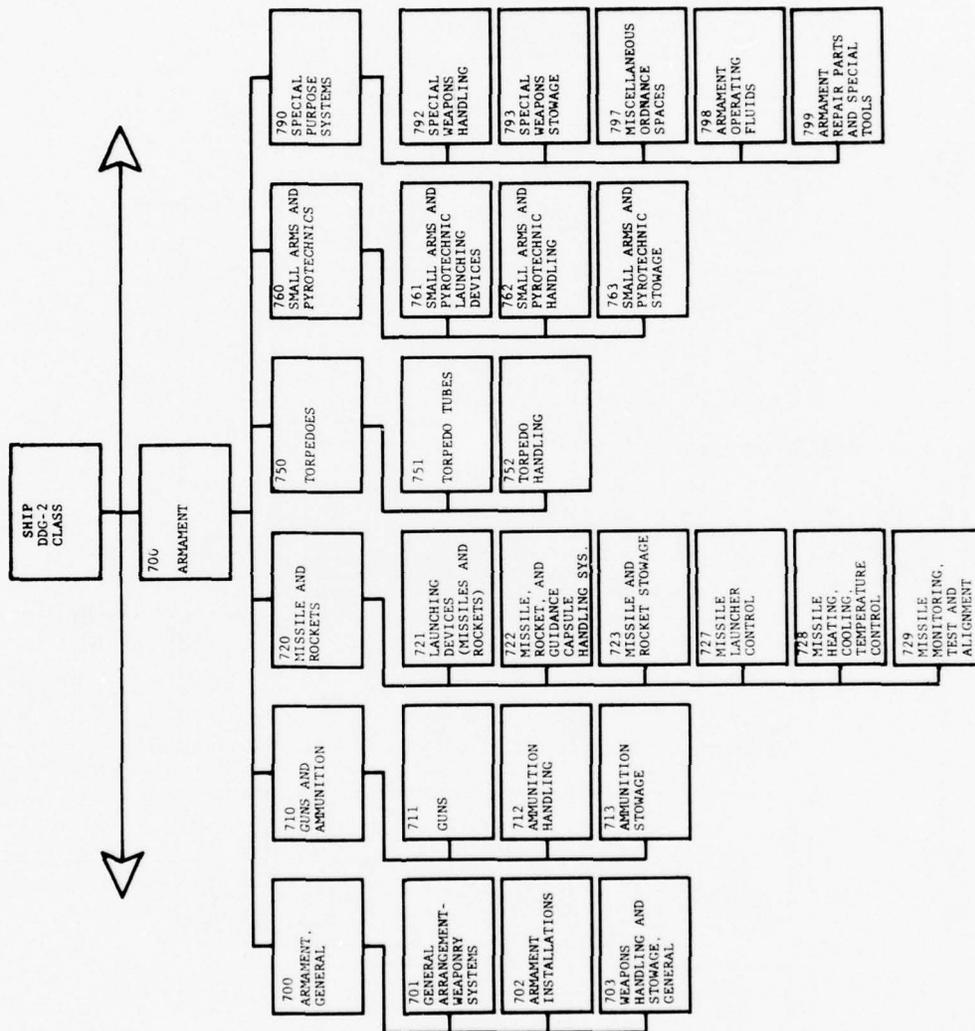


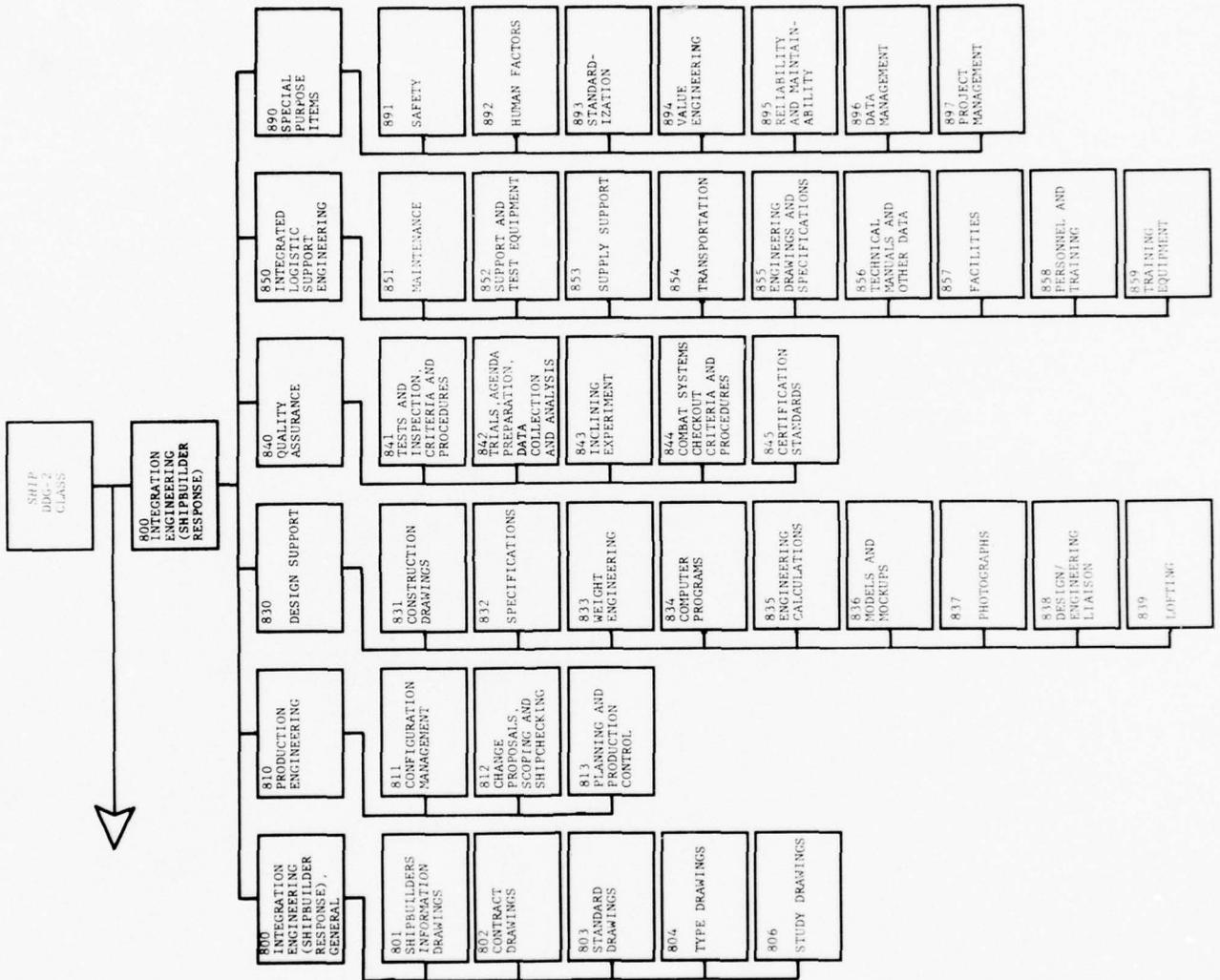












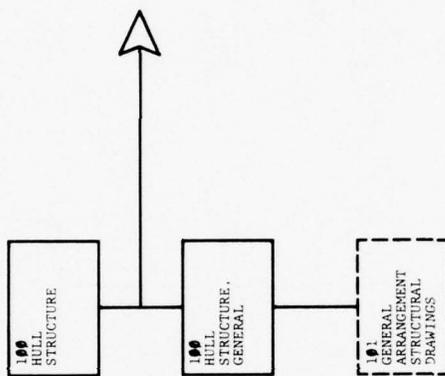
LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	GLOBE VALVE
	GLOBE VALVE, LOCKED OPEN
	GLOBE VALVE, LOCKED CLOSED
	GLOBE VALVE, MANUALLY OPERATED IN PLACE OR PNEUMATICALLY FROM MAIN DECK
	AIR MOTOR OPERATED VALVE
	GLOBE VALVE WITH MANUAL GEAR OPERATED IN PLACE AND ADJACENT SPACE
	GLOBE VALVE, ANGLE
	GLOBE VALVE, REMOTE OPERATED
	GLOBE STOP CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	SWING CHECK VALVE
	LIFT CHECK VALVE
	NEEDLE VALVE
	STOP COCK PLUG OR CYLINDER VALVE 3 WAY, 2 PORT
	CONTROLLED VALVE, BOILER FEED
	PRESSURE REDUCING OR PRESSURE REGULATING INCREASED ACTUATING PRESSURE CLOSES
	PRESSURE REDUCING OR PRESSURE REGULATING DECREASED ACTUATING PRESSURE CLOSES
	PRESSURE REGULATING VALVE AIR PILOT OPERATED
	PUMP GOVERNOR
	THERMOSTATICALLY CONTROLLED VALVE
	DUMP VALVE
	PILOT VALVE
	FLOAT OPERATED VALVE
	ANGLE LIFT CHECK VALVE
	CONTROL VALVE
	HOSE CONNECTION AND GLOBE VALVE

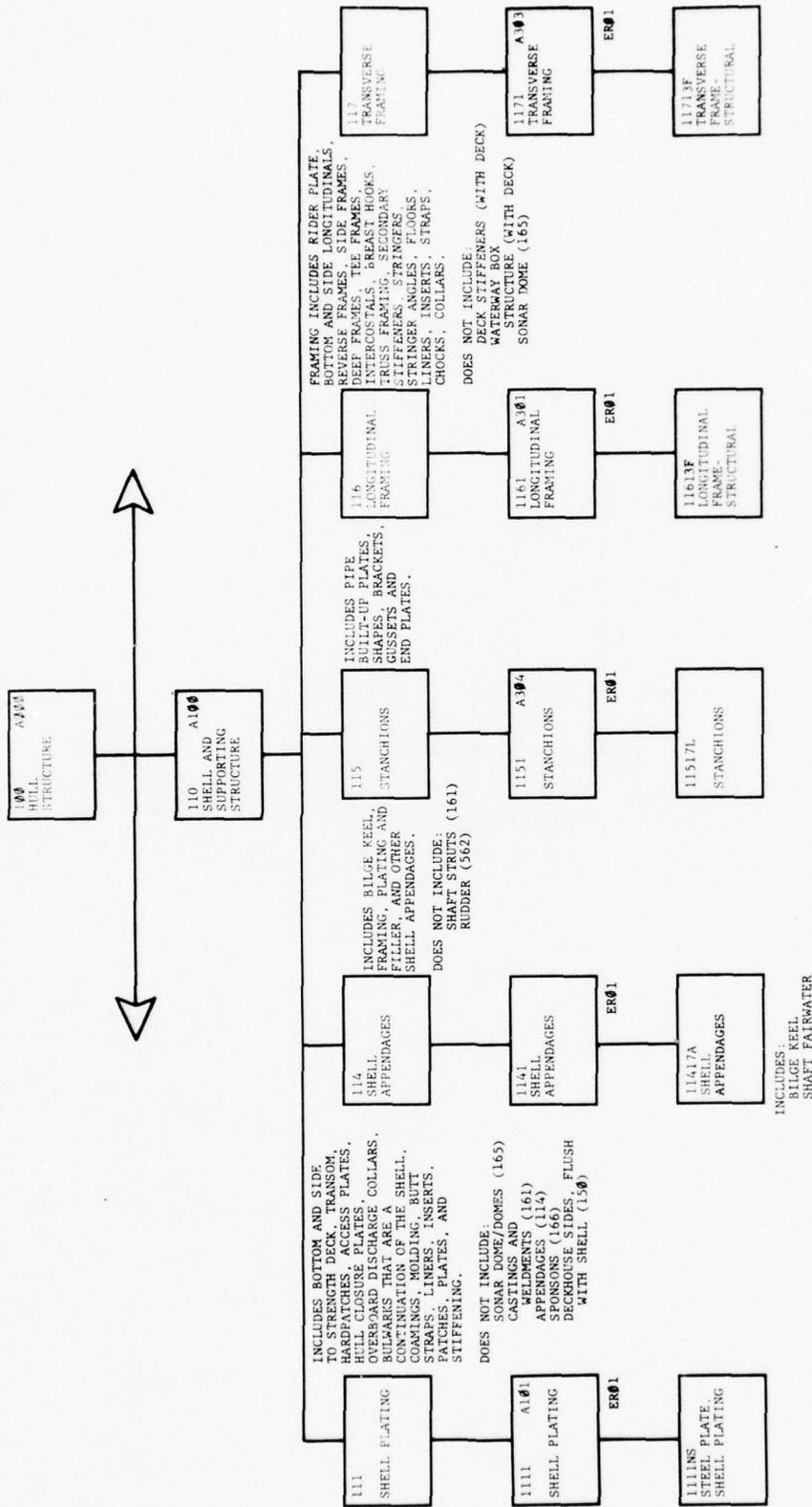
NOTE: VALVES OTHER THAN THE GLOBE VALVE MAY USE THE MODIFIERS SHOWN. IN ADDITION COMBINATIONS OF VALVE MODIFIERS MAY BE USED.

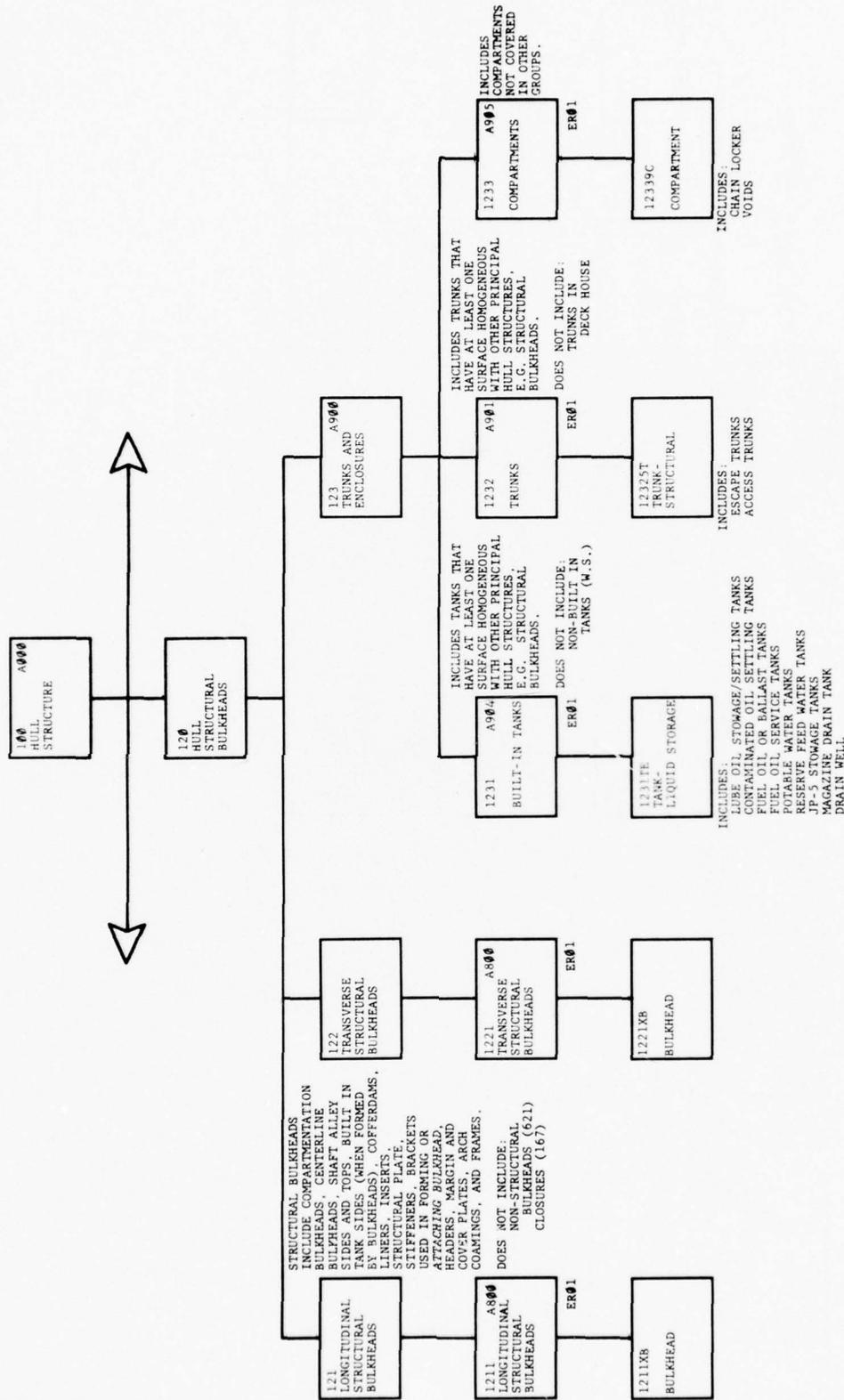
LEGEND OF SYMBOLS

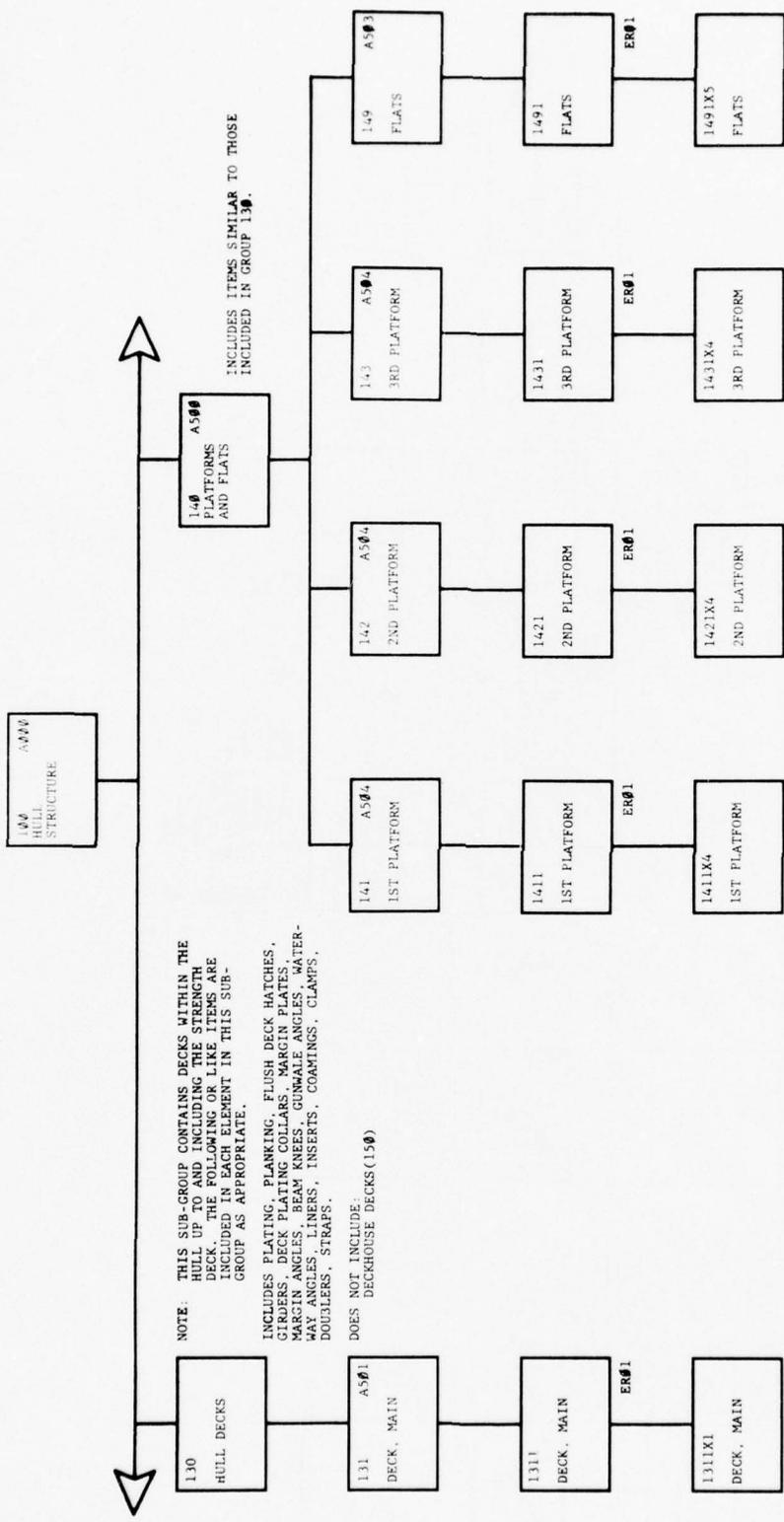
SYMBOL	DESCRIPTION
	VENT
	BOILER DRUM SAFETY VALVE
	ANGLE RELIEF VALVE (ENCLOSED SPRING)
	COMBINED EXHAUST AND RELIEF VALVE
	PRESSURE GAUGE
	VACUUM - PRESSURE GAUGE
	DUPLEX PRESSURE GAUGE
	ABSOLUTE PRESSURE GAUGE
	DISTANT READING PRESSURE GAUGE
	DISTANT READING THERMOMETER
	SIGHT READING THERMOMETER
	THERMO ELEMENT
	METER SIGHT FLOW
	PRESSURE BREAKDOWN ORIFICE
	OPEN FUNNEL
	SPECTACLE FLANGE
	DUPLEX STRAINER
	Y STRAINER
	STRAINER
	IMPULSE TRAP & STRAINER
	SALINITY CELL
	ORIFICE PLATE
	MOTOR CONTROLLER
	TEST TEE
	DESUPERHEATER
	MANIFOLD
	REDUCER

LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	PUSHBUTTON & INDICATOR LIGHT
	PUSHBUTTON
	EXPANSION JOINT
	GAGE GLASS
	DUPLEX (TWIN BASKET) MAGNETIC STRAINER
	THERMOCOUPLE CONNECTION OR THERMOSTAT
	THERMOMETER ANY ANGLE DIAL, BARE BULB TYPE DIRECT READING
	THERMOMETER DISTANT READING BARE BULB TYPE
	CONSTANT FLOW FITTING
	FUNNEL WITH SWING COVER
	CONCENTRIC REDUCER
	REDUCER
	HOSE ADAPTER
	SOUND ISOLATION FITTING
	FLEXIBLE HOSE
	FLOW MEASURING NOZZLE
	SHAFT TURBINE END, COUPLING OIL SPRAY
	ANGLE STOP VALVE
	BALL CHECK STOP VALVE
	PRESSURE VENT
	LOCK SHIELD VALVE, HIGH LIFT
	BOTTOM BLOWDOWN VALVE, HIGH LIFT
	TOP BLOWDOWN VALVE, HIGH LIFT
	AIR OPERATED VALVE SPRING CLOSING
	AUTOMATIC RECIRCULATING VALVE
	CROSS VALVE
	MOTOR PRESSURE SWITCH
	LIMIT SWITCHES







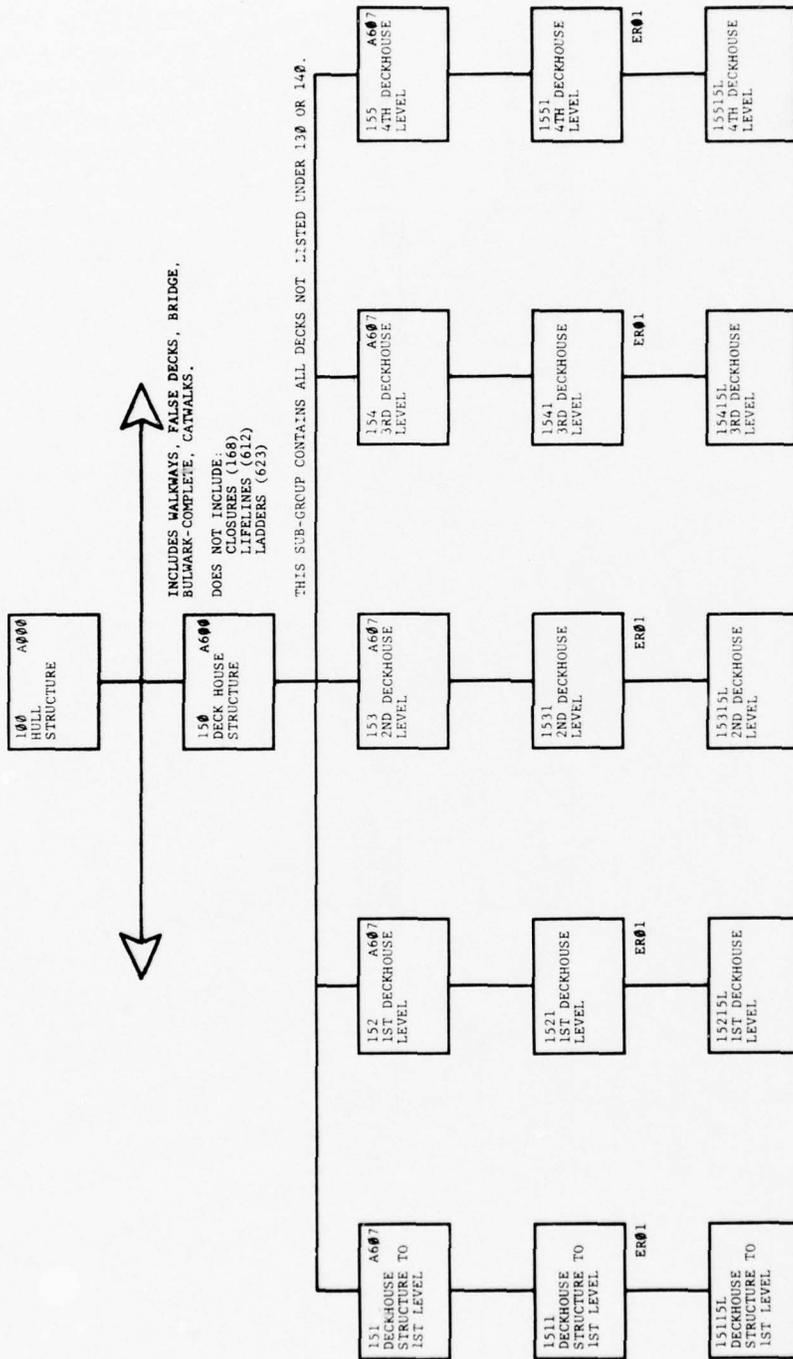


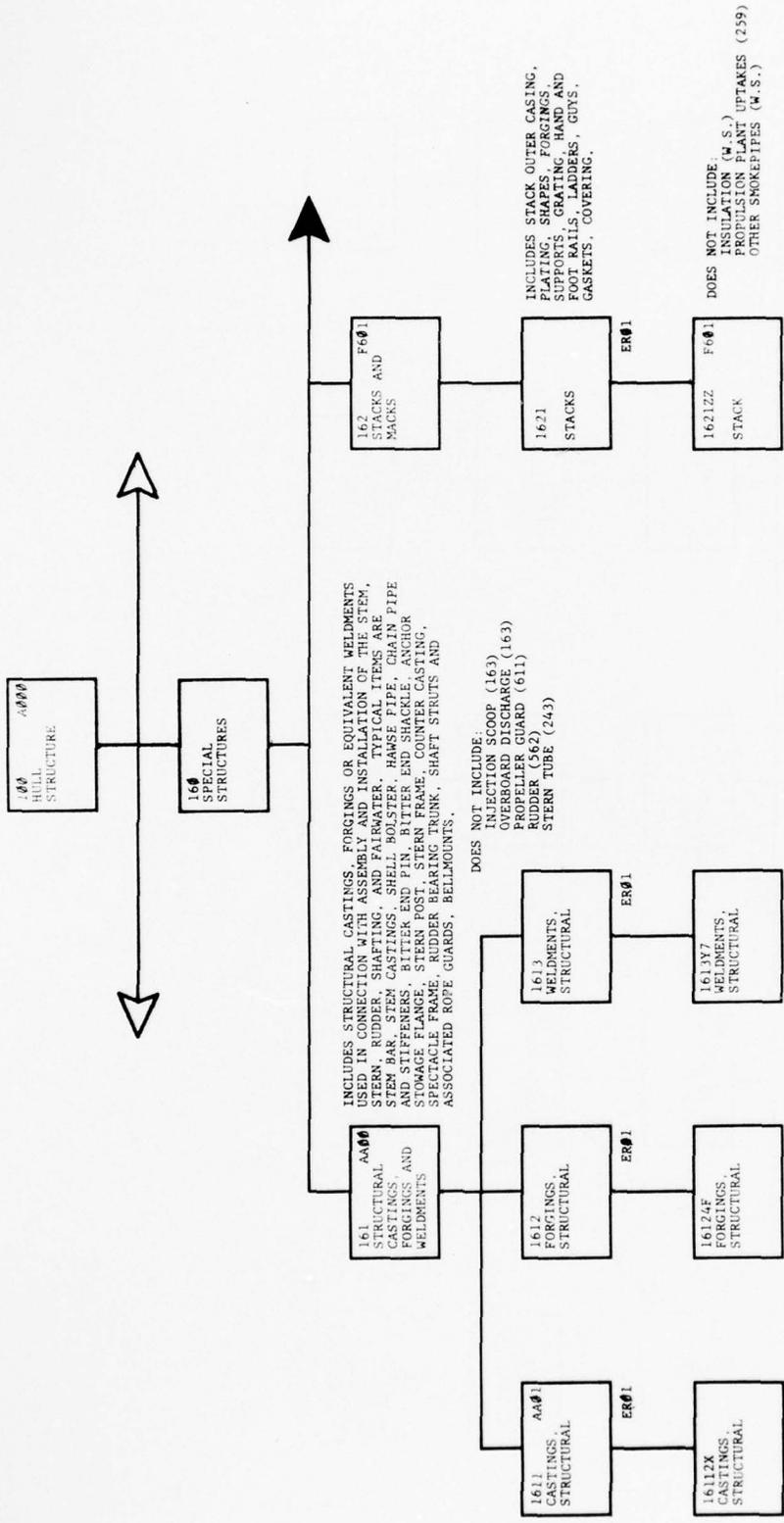
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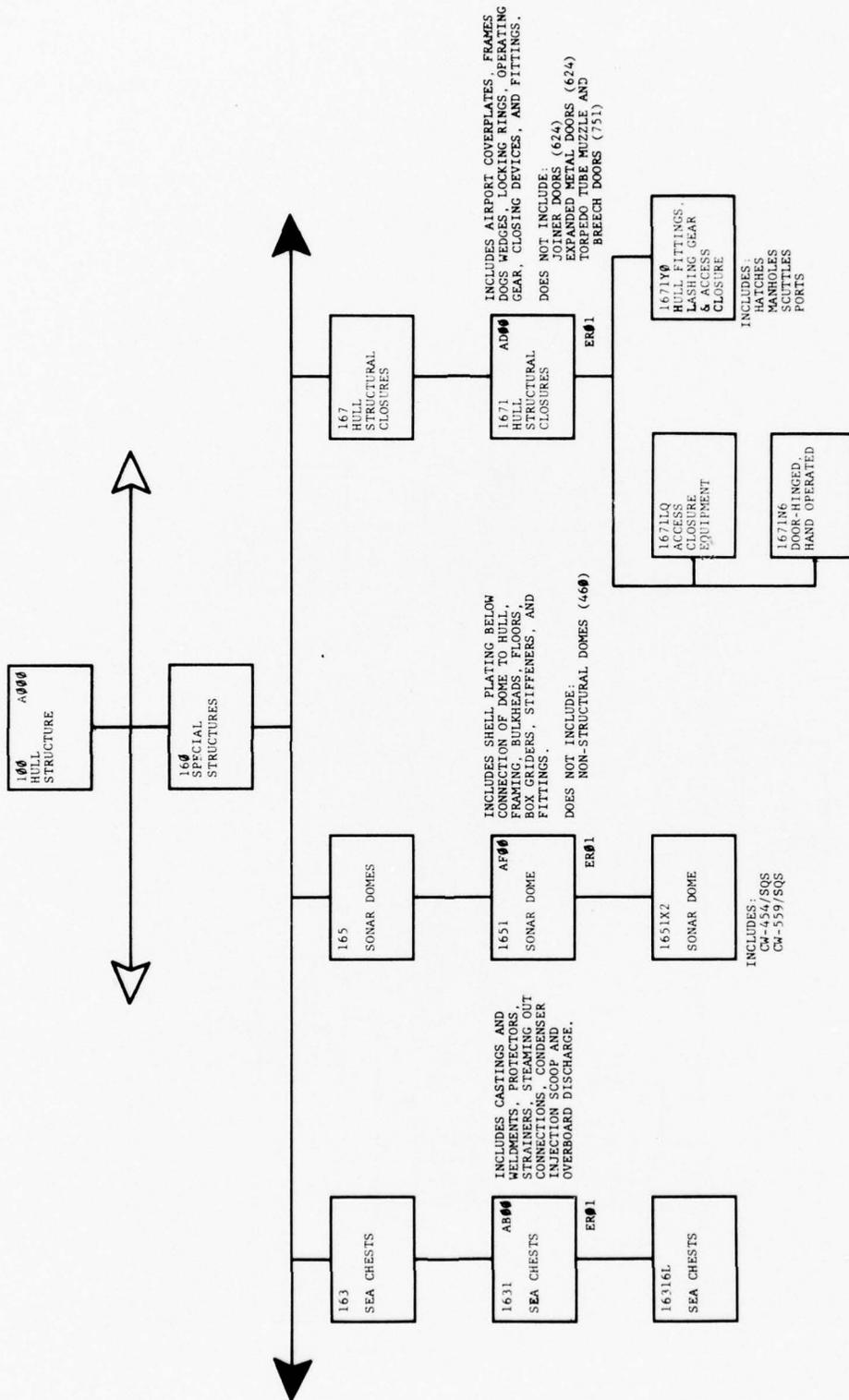
INCLUDES PLATING, PLANKING, FLUSH DECK HATCHES, GIRDERS, DECK PLATING COLLARS, MARGIN PLATES, MARGIN ANGLES, BEAM KNEES, GUNWALE ANGLES, WATER-WAY ANGLES, LINERS, INSERTS, COAMINGS, CLAMPS, DOUBLERS, STRAPS.

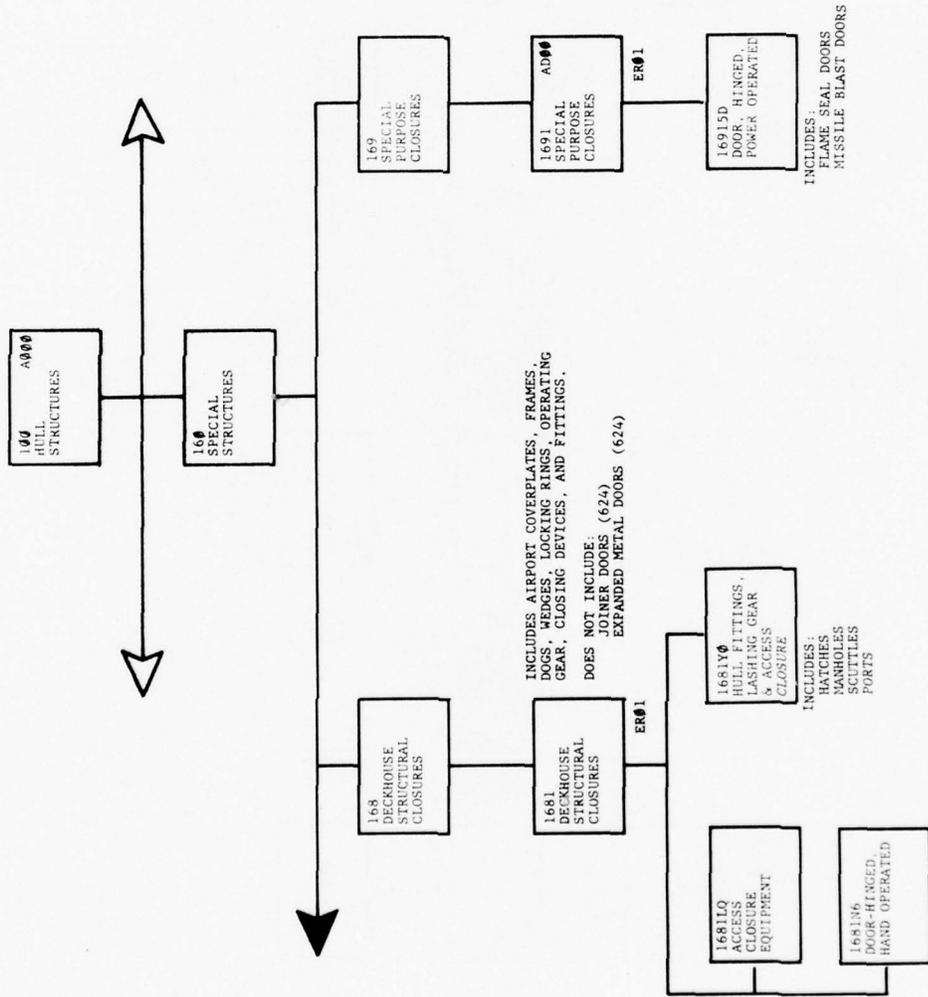
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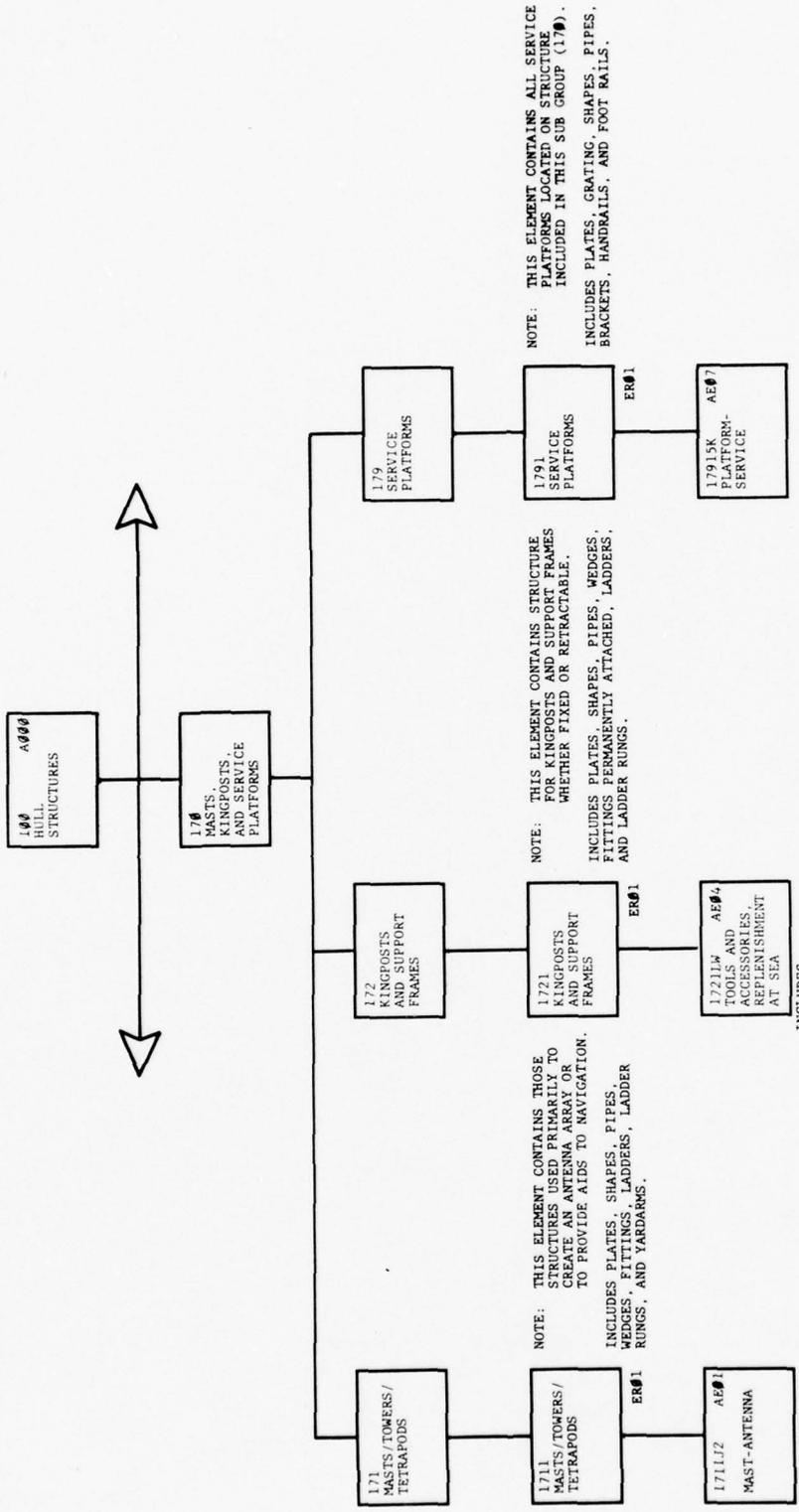
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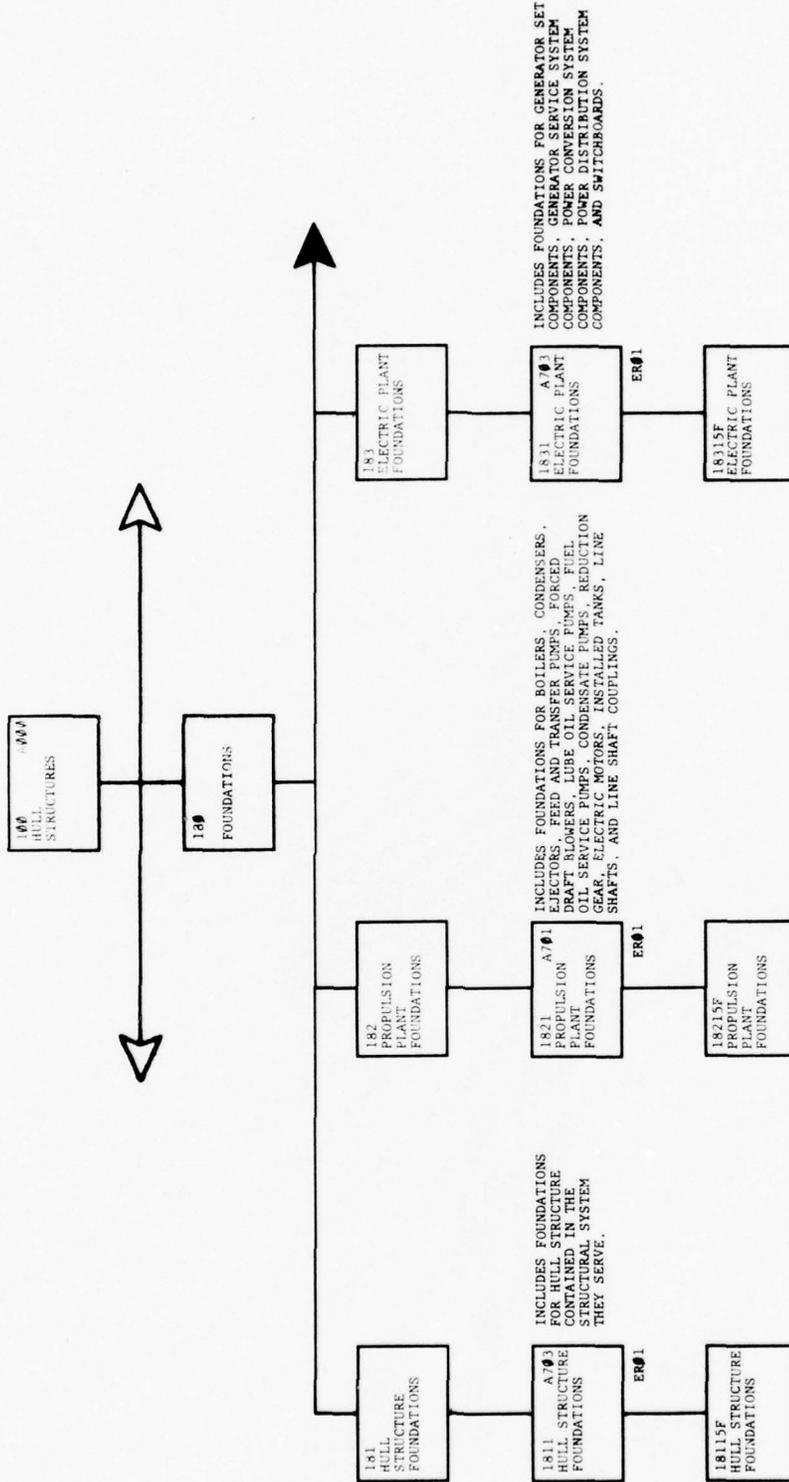


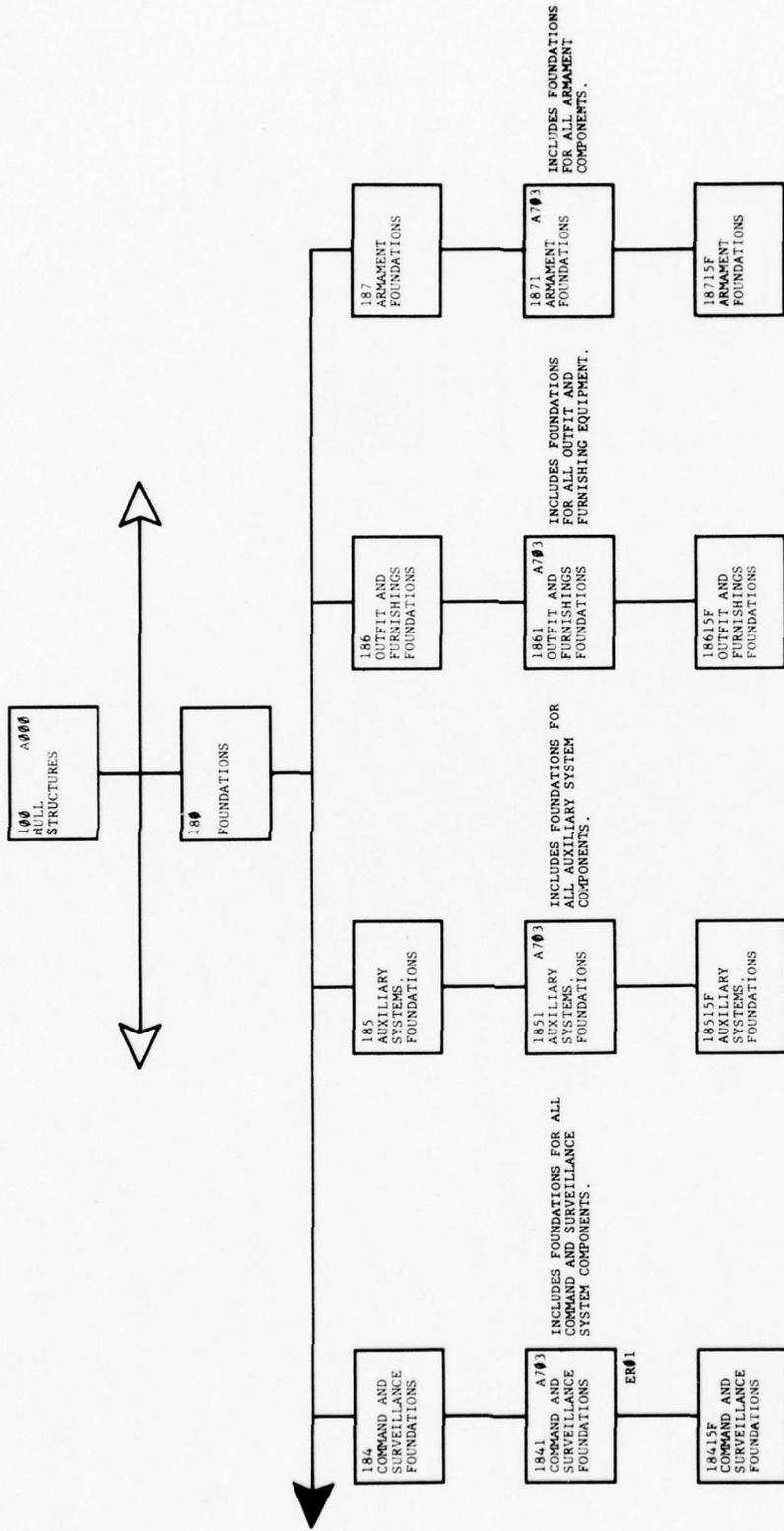


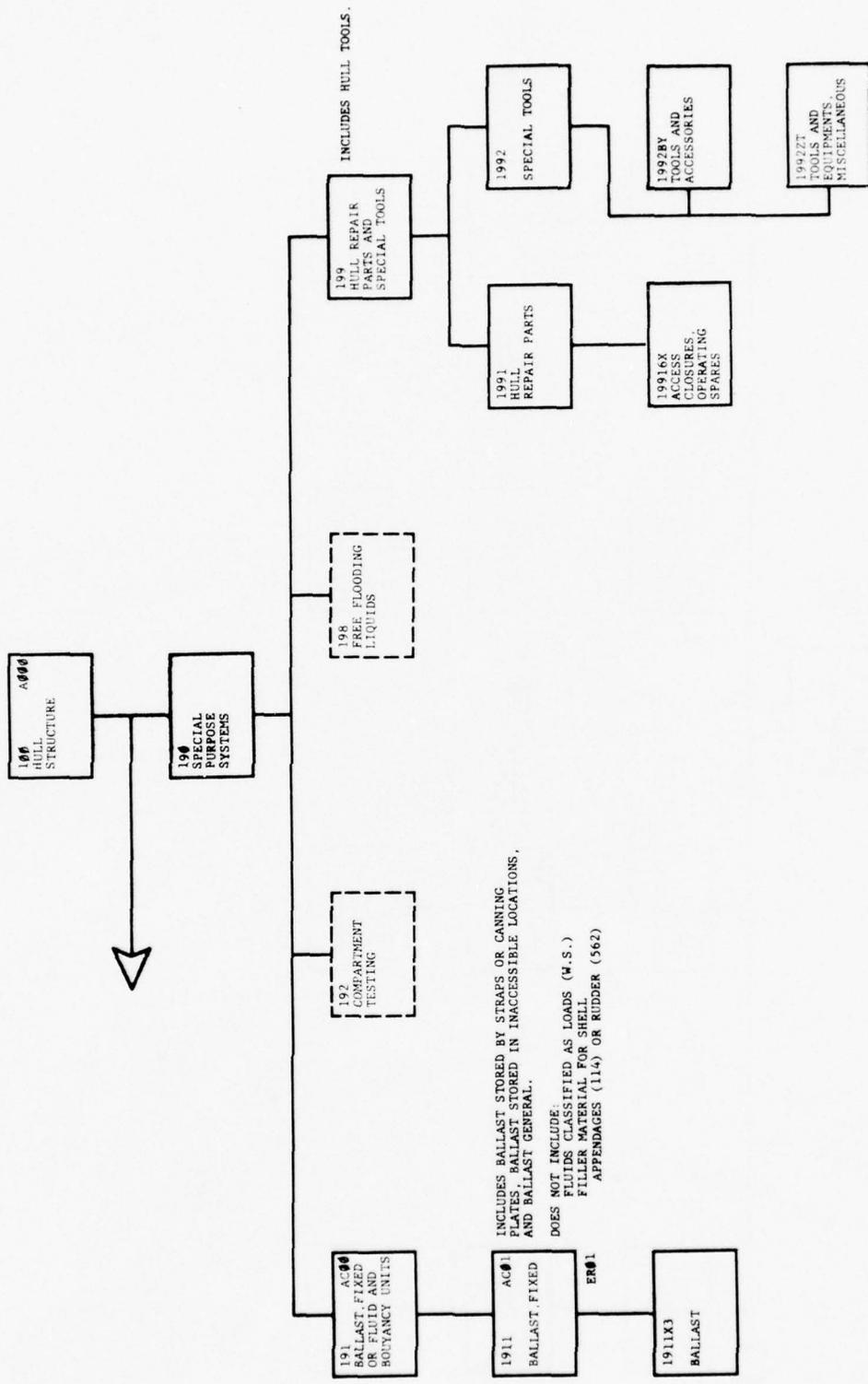


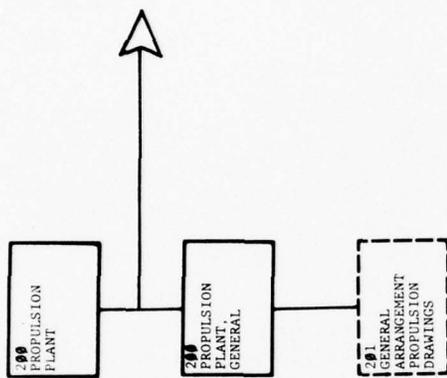


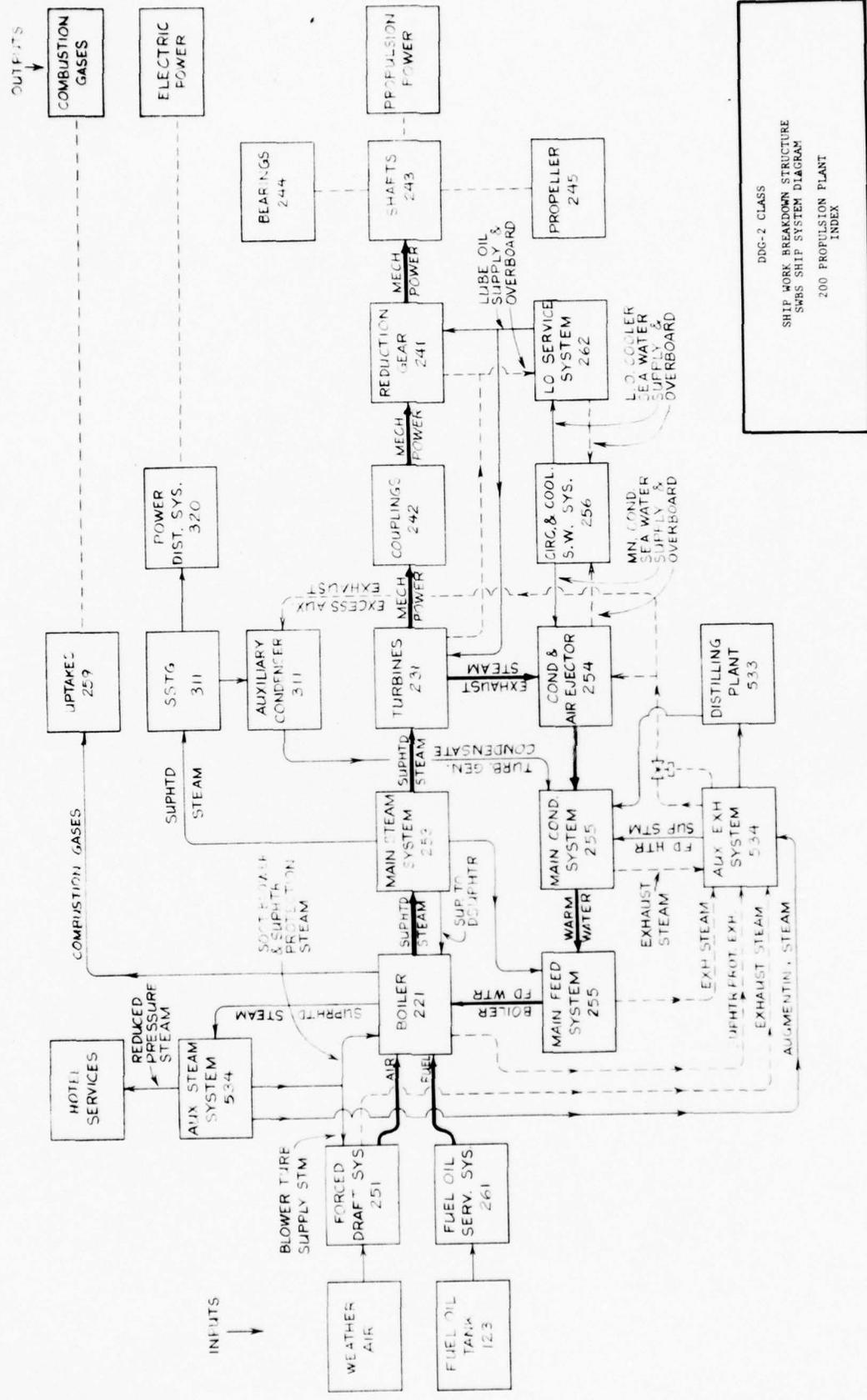




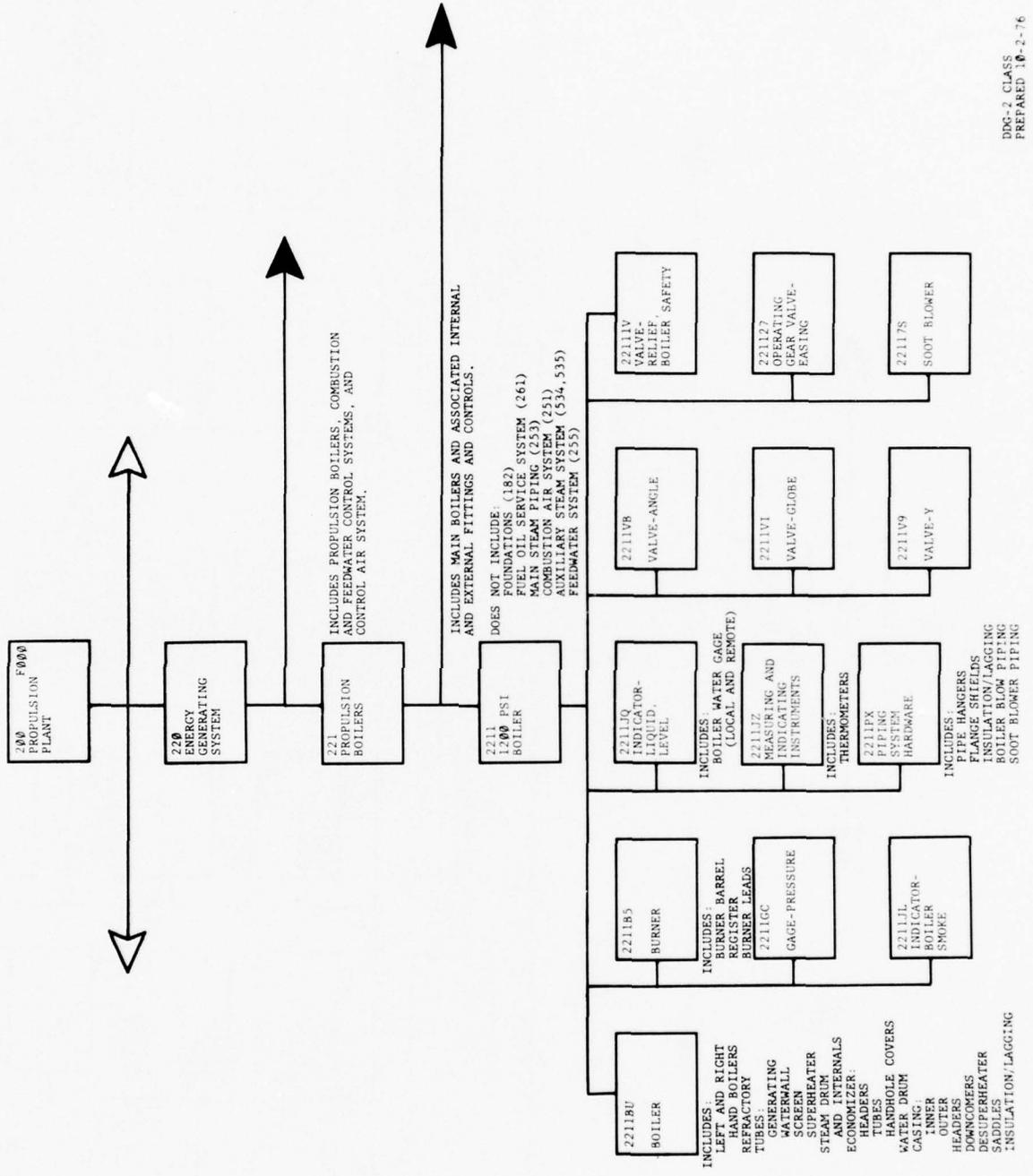


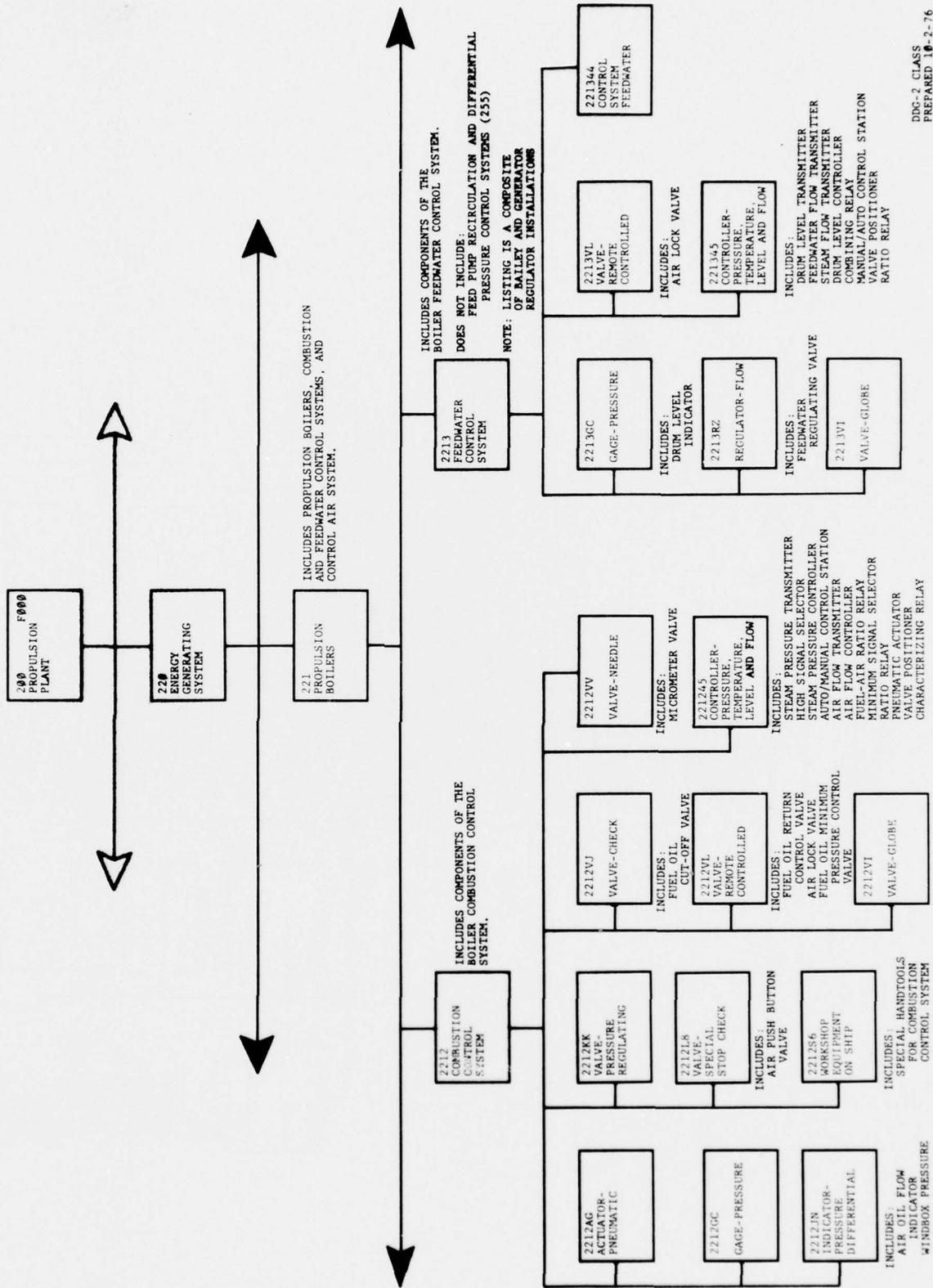


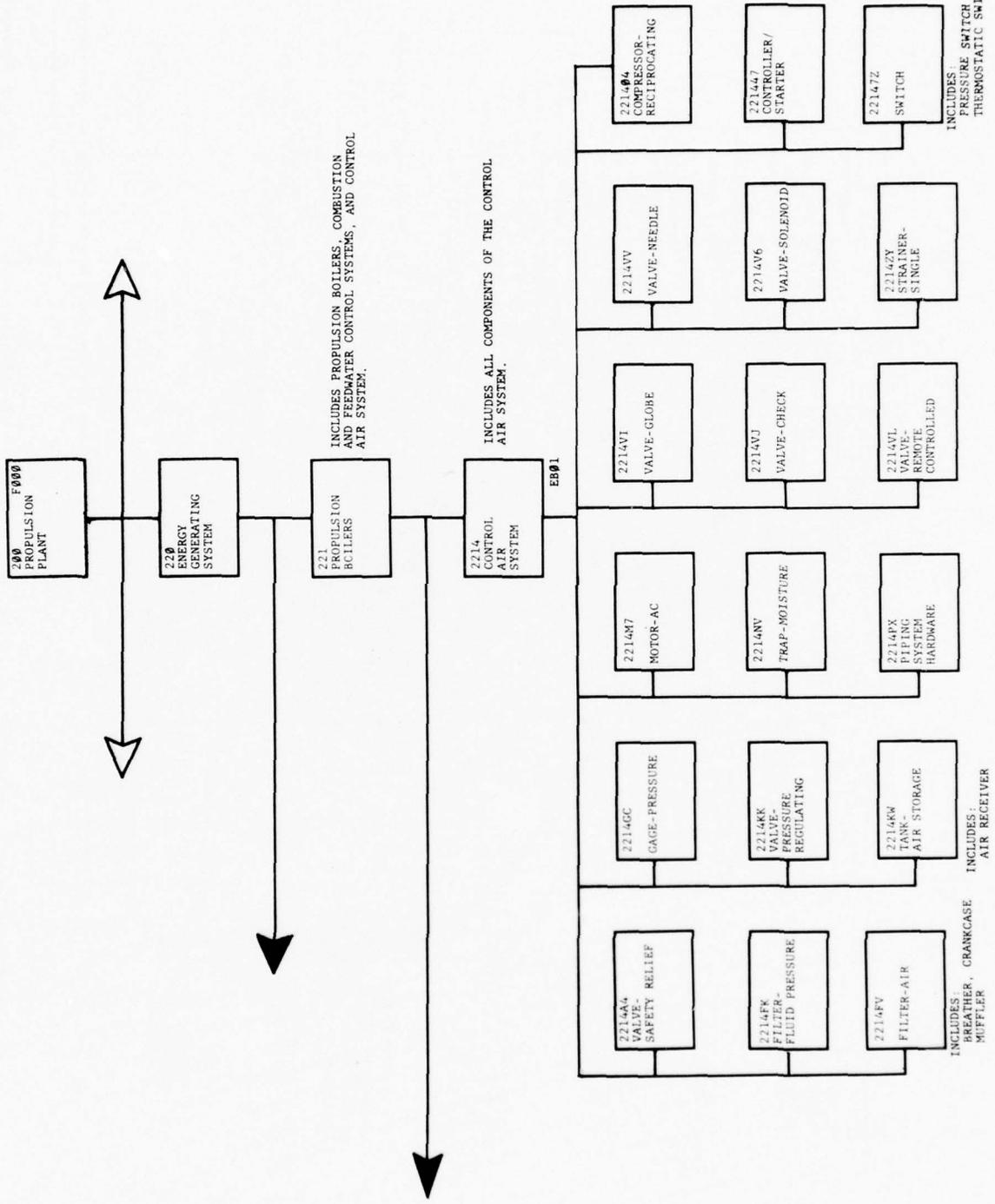




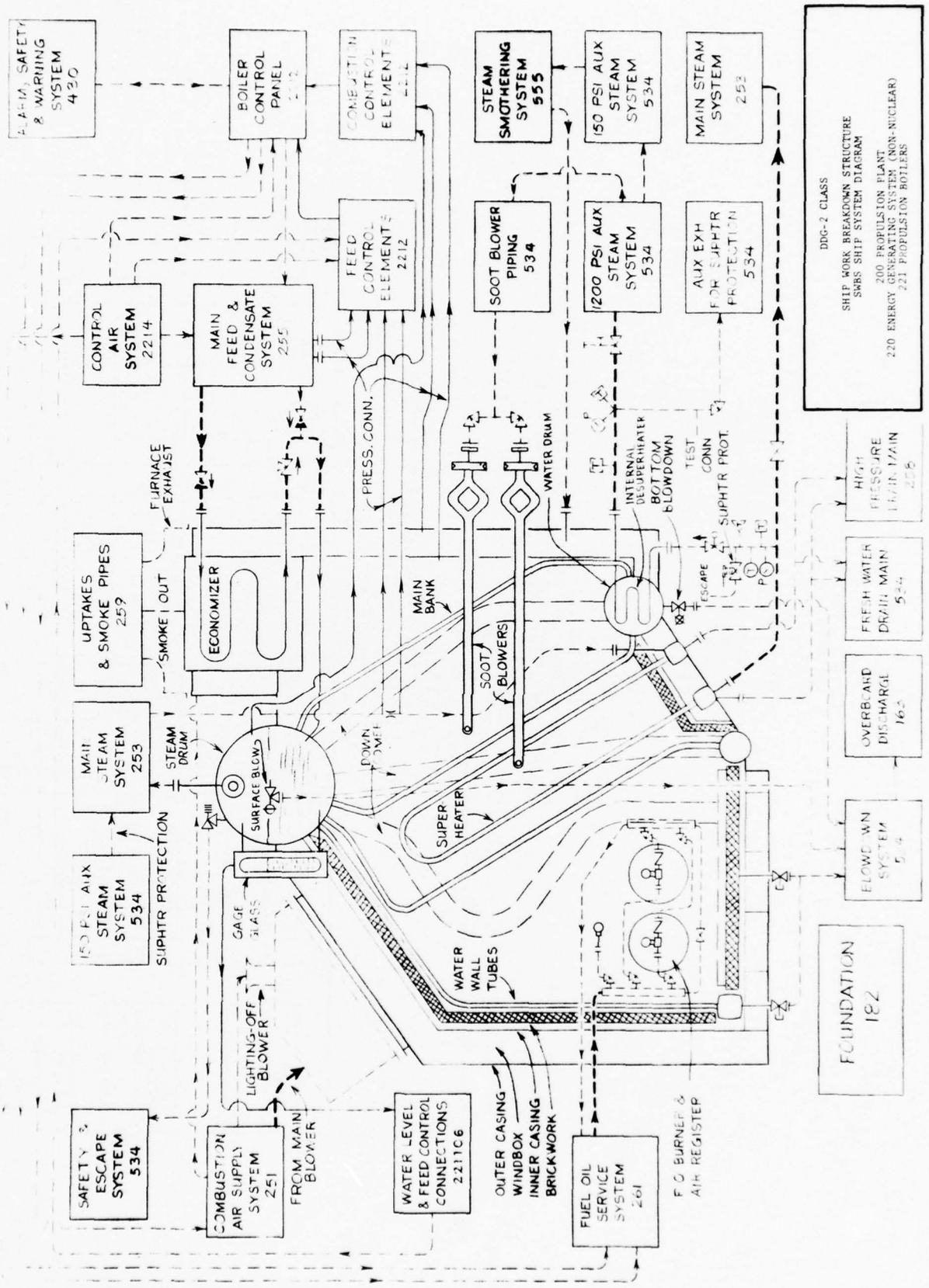
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 INDEX



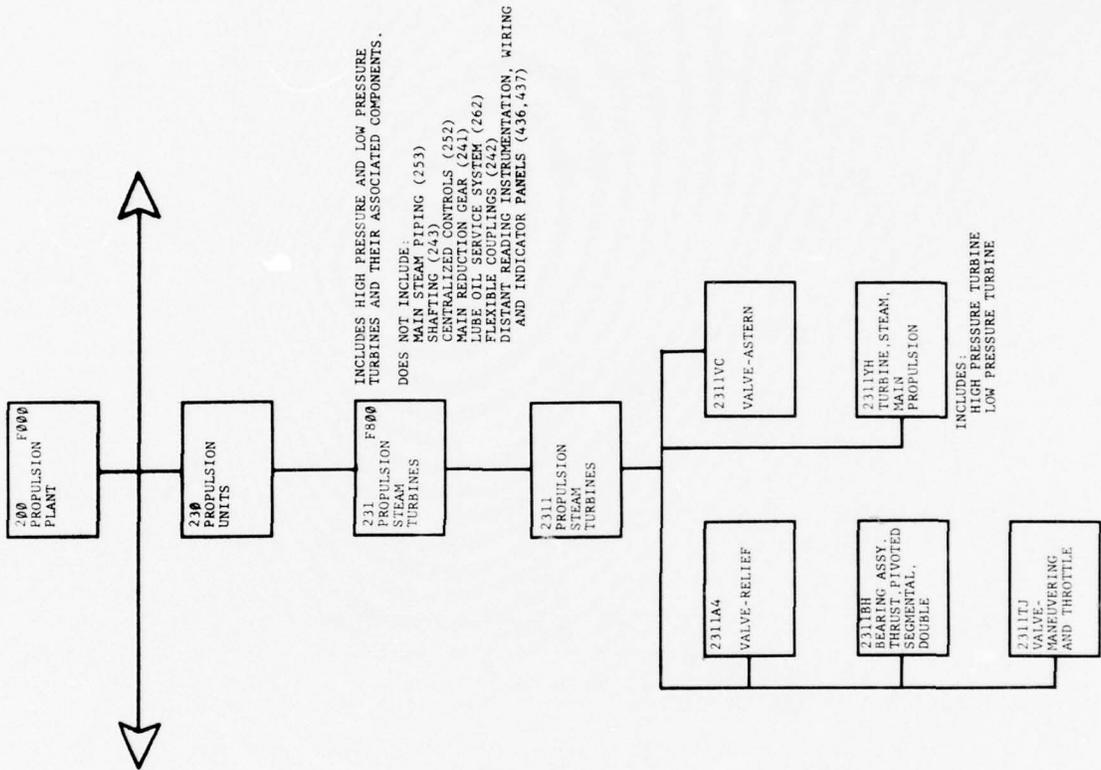


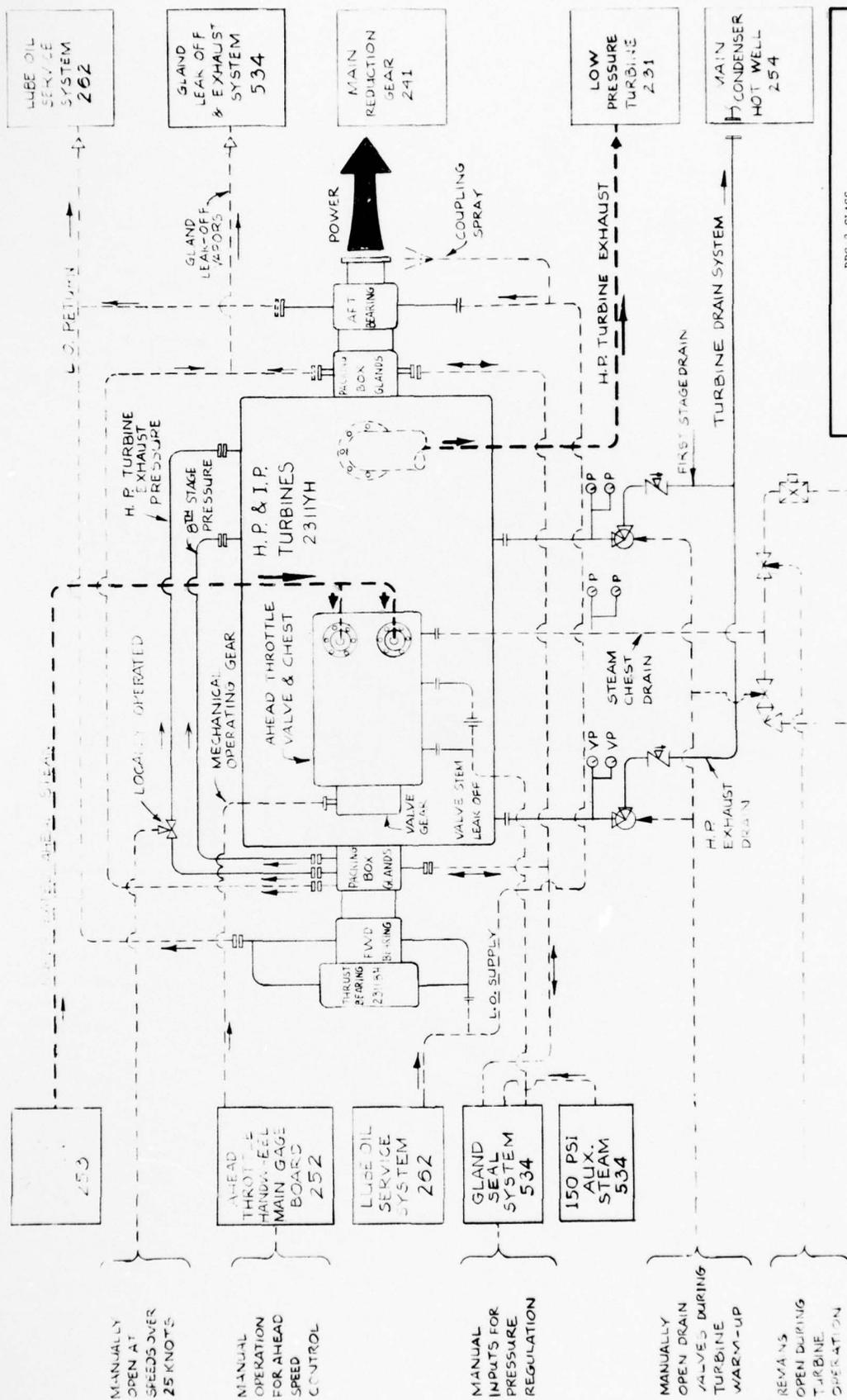


DDG-2 CLASS
PREPARED 10-2-76

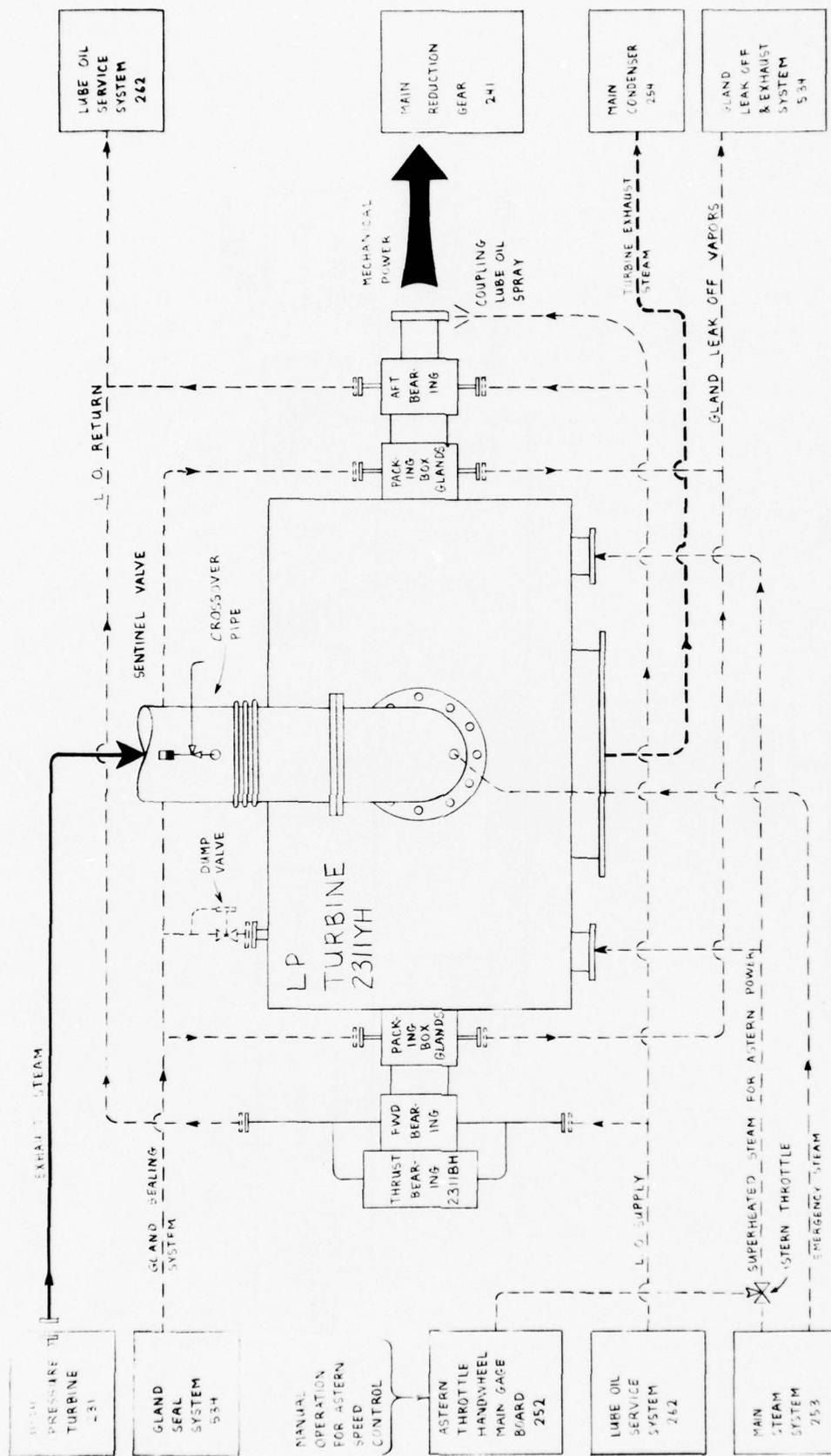


DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SMBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 220 ENERGY GENERATING SYSTEM (NON-NUCLEAR)
 221 PROPULSION BOILERS

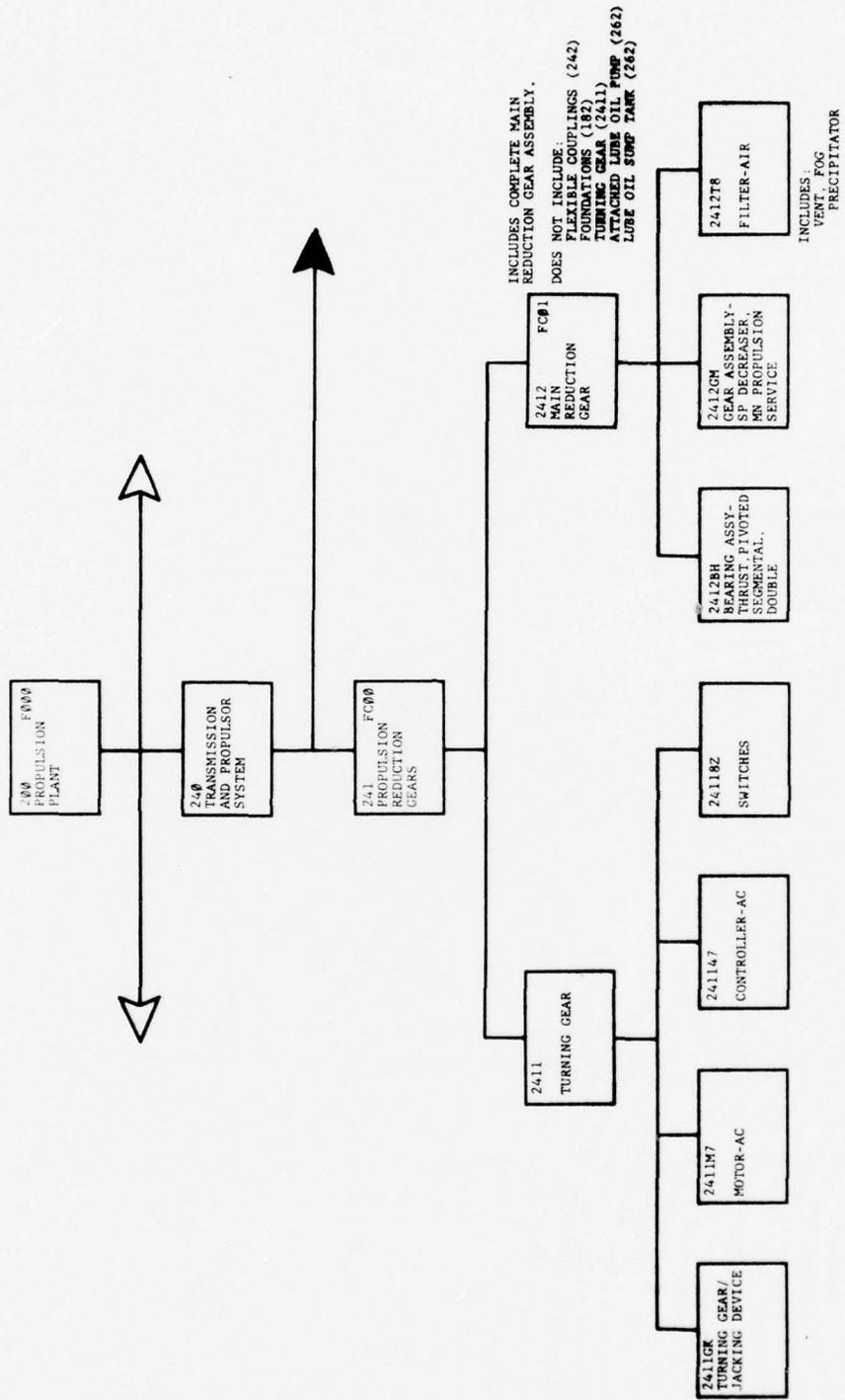


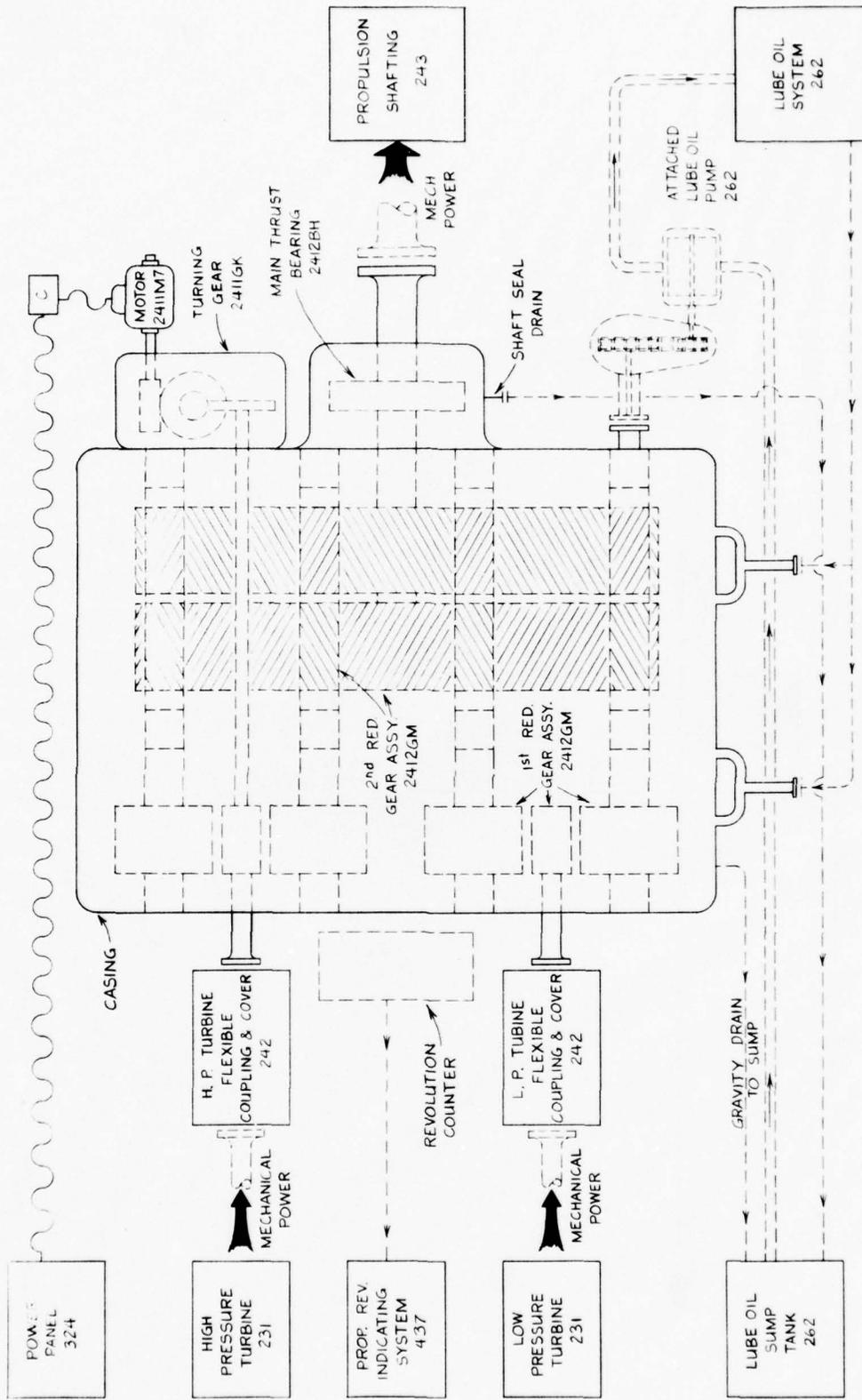


DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SMS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 230 PROPULSION UNITS
 231 HIGH AND INTERMEDIATE PRESSURE STEAM TURBINES



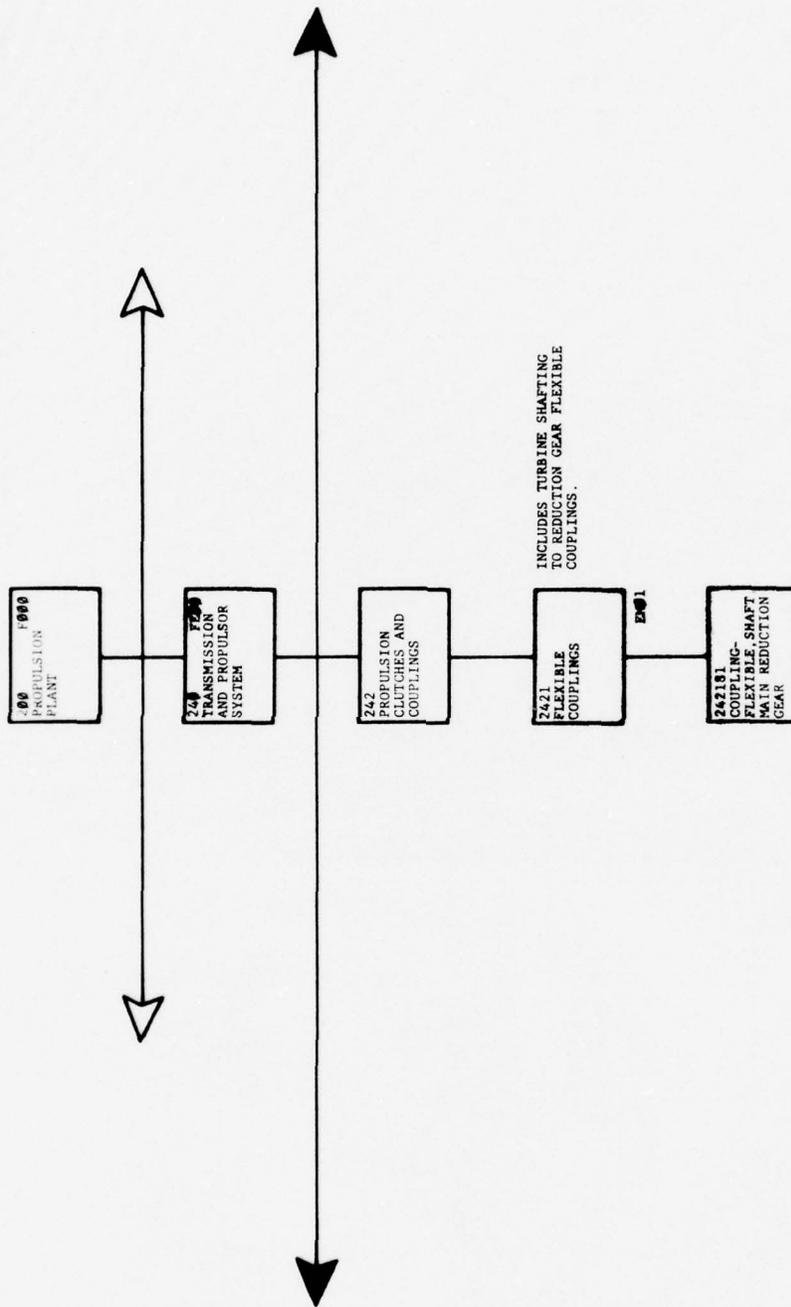
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 230 PROPULSION UNITS
 231 LOW PRESSURE STEAM TURBINE

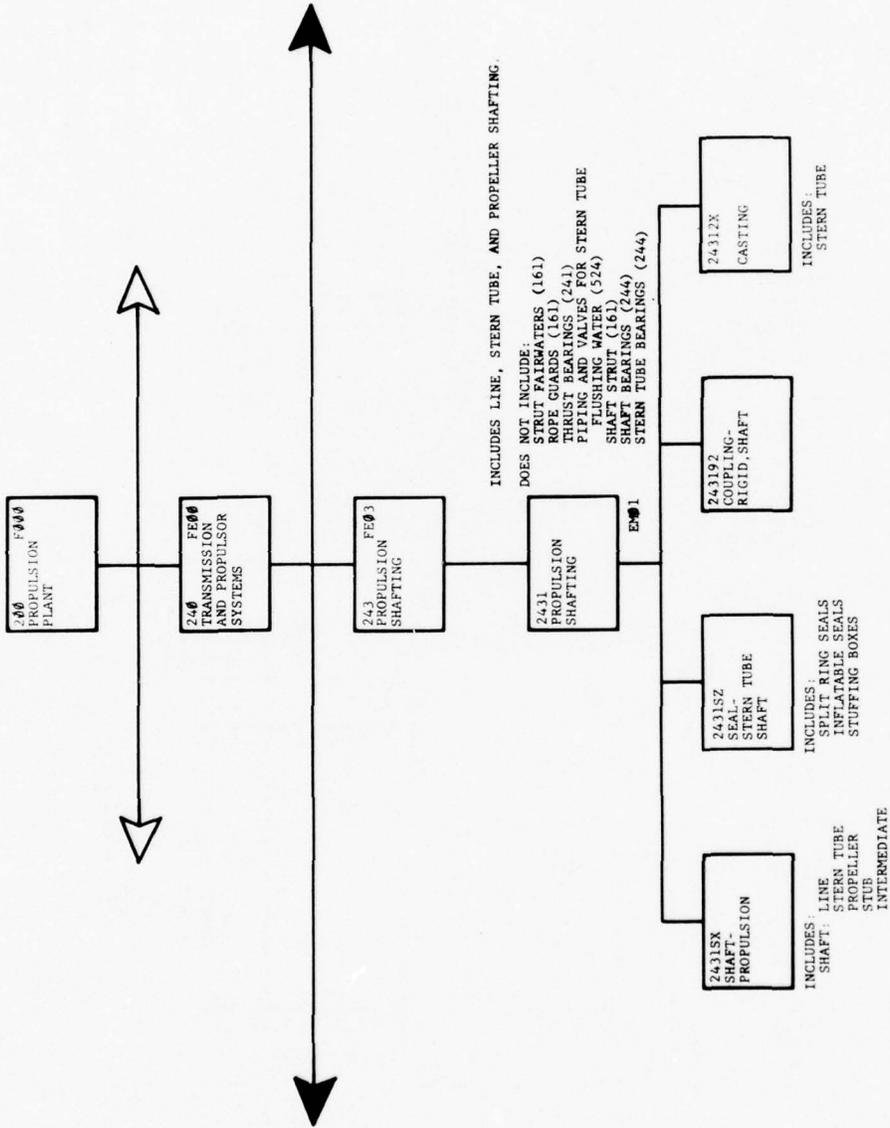




DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 240 TRANSMISSION AND PROPULSOR SYSTEMS
 241 PROPULSION REDUCTION GEARS

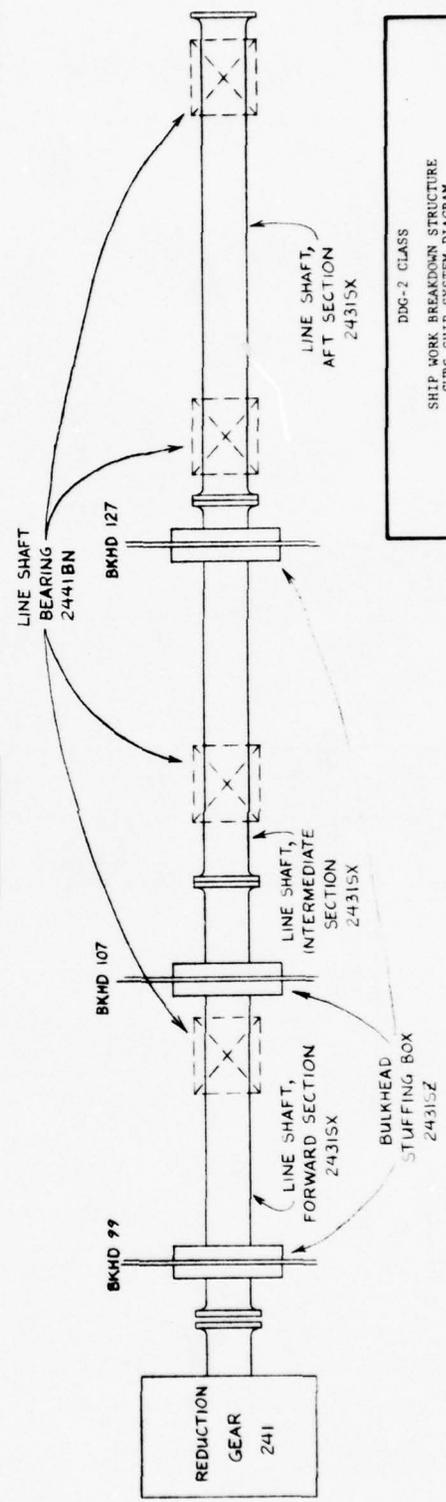
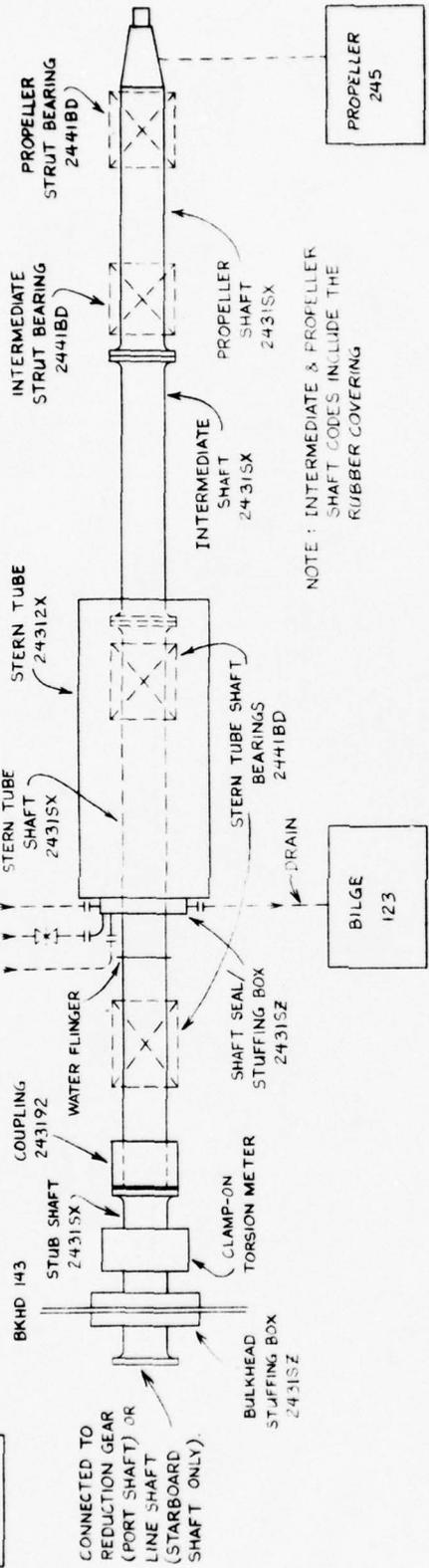
FOUNDATION
 182



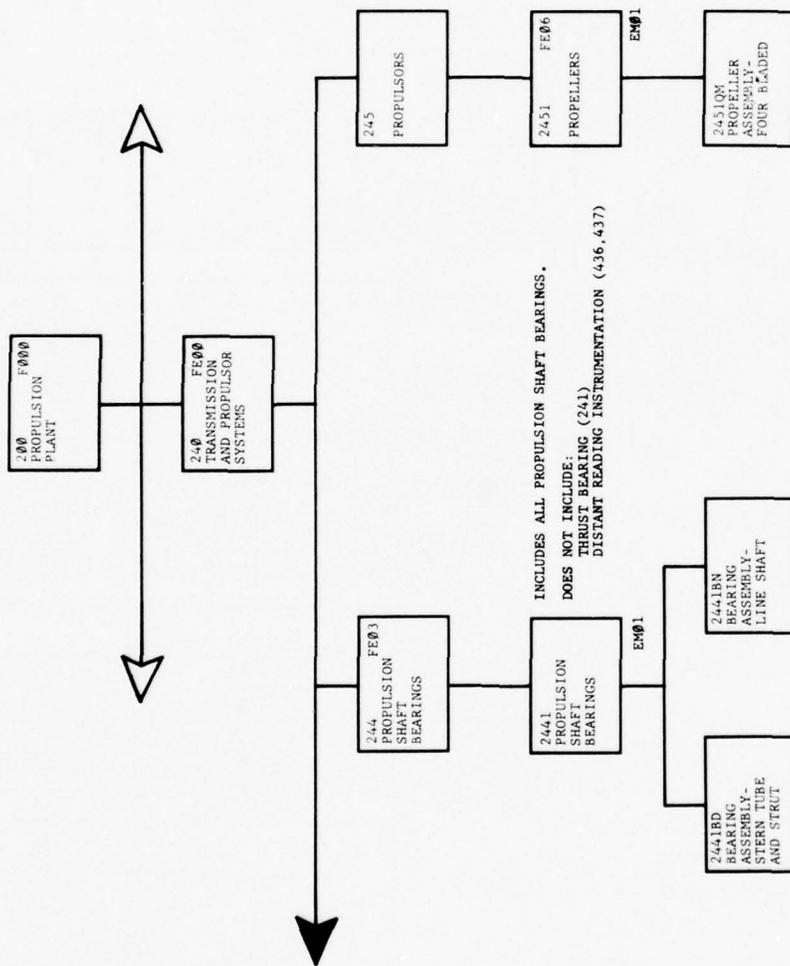


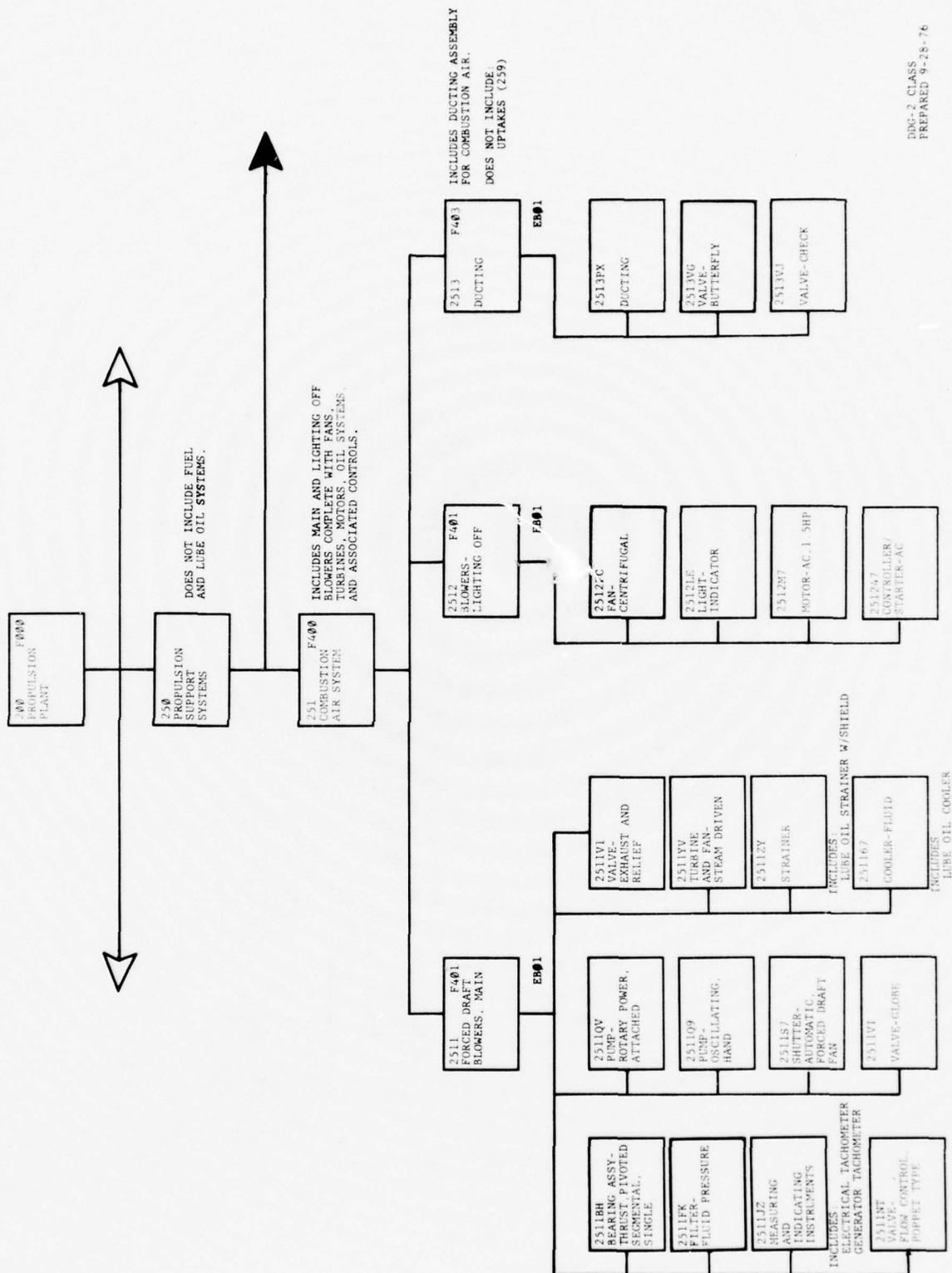
AUXILIARY MACHINERY COOLING JOURNAL 524

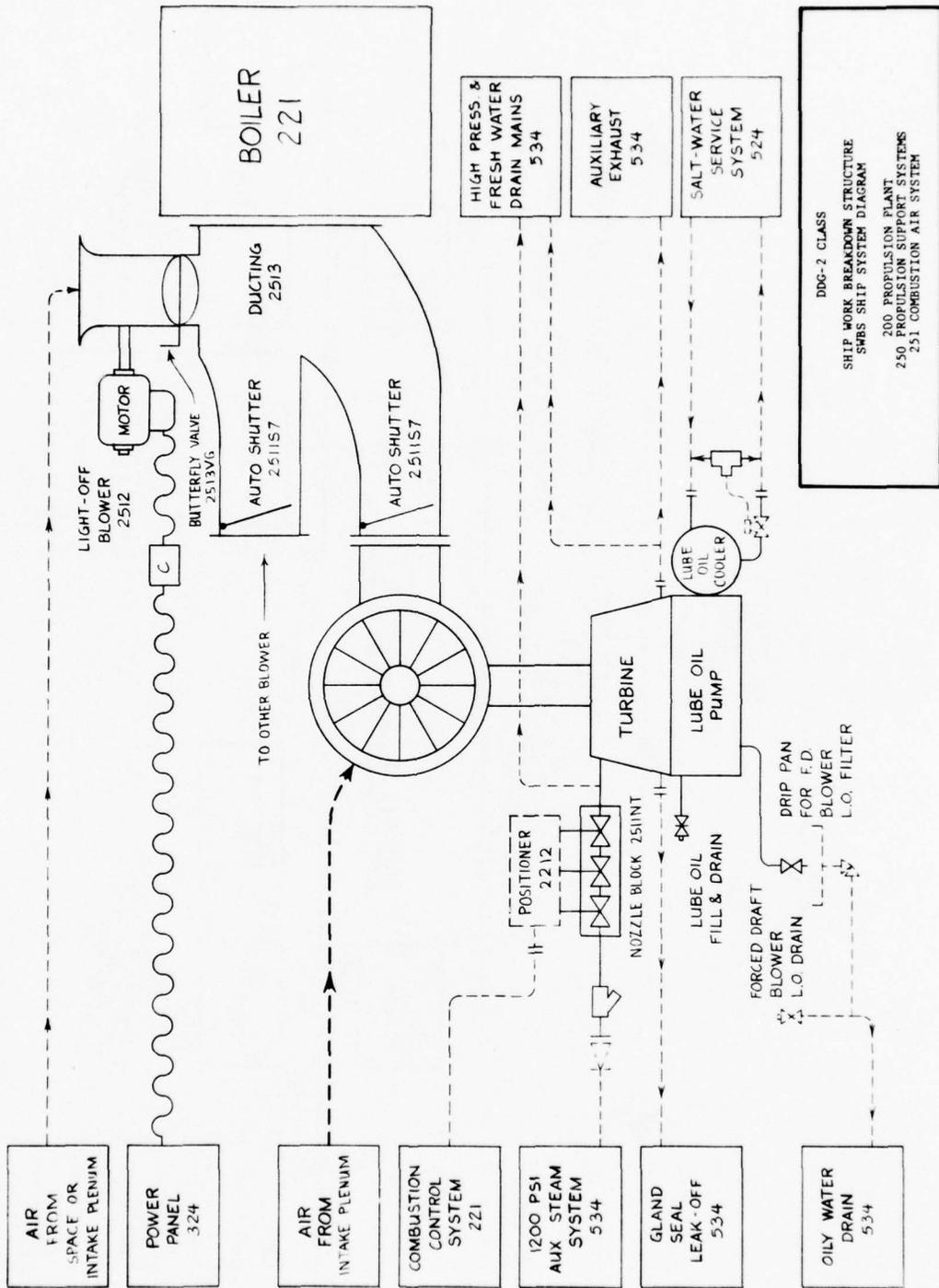
SEAL LUBRICATION COILING FLUSHING

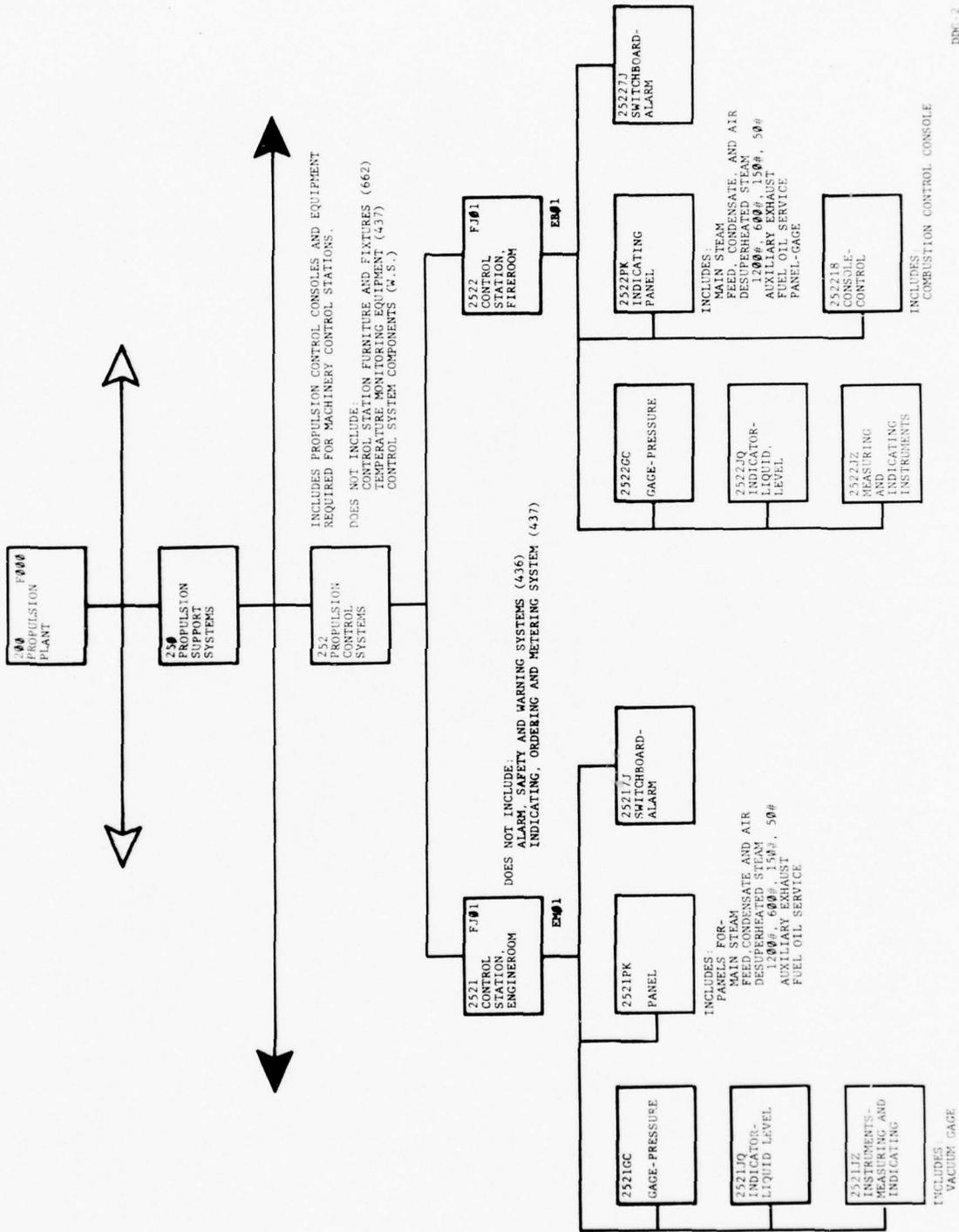


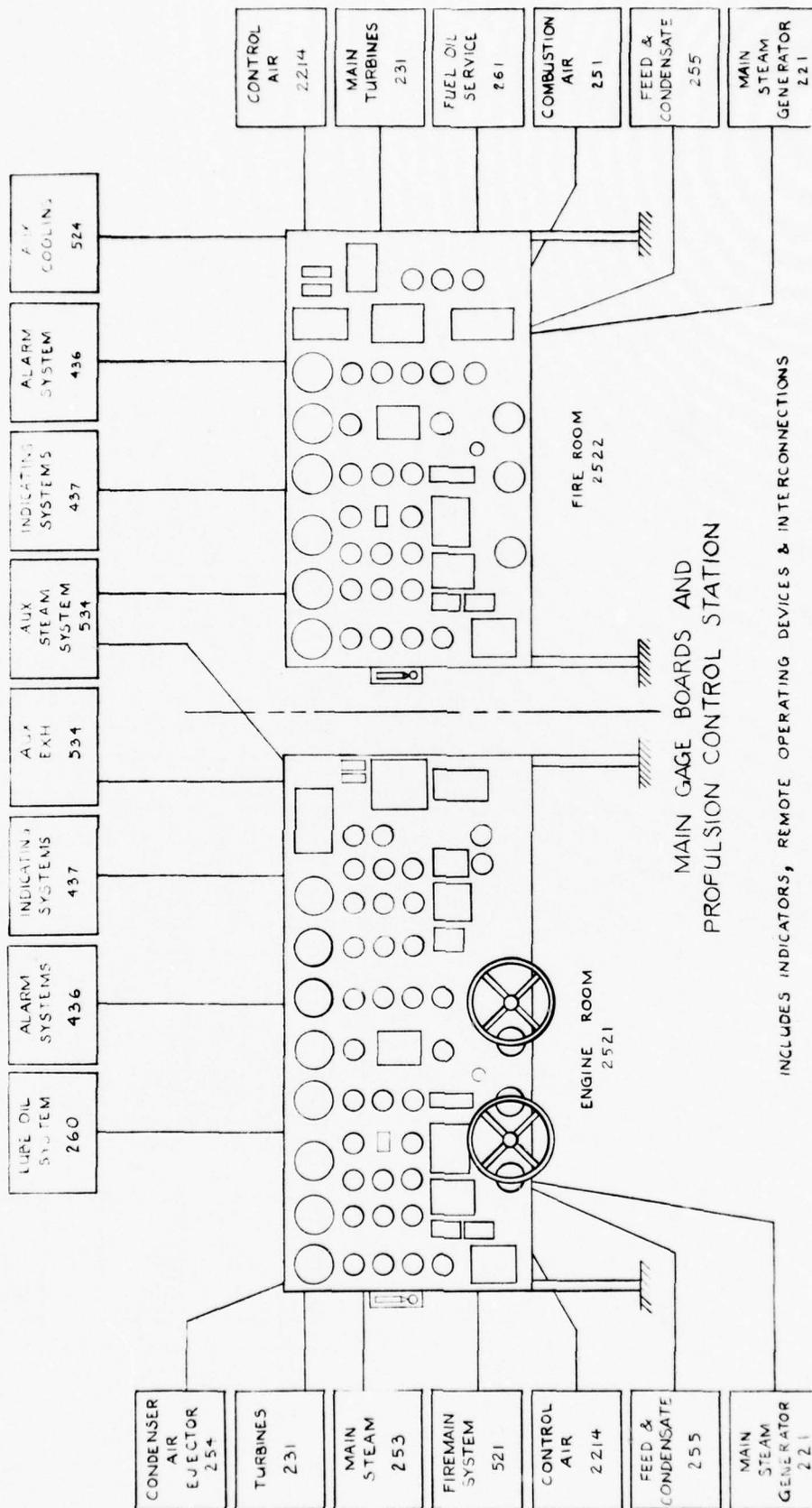
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SBBS SHIP SYSTEM DIAGRAM
 240 PROPULSION PLANT
 240 TRANSMISSION AND PROPULSOR SYSTEMS
 243 PROPULSION SHAFTING



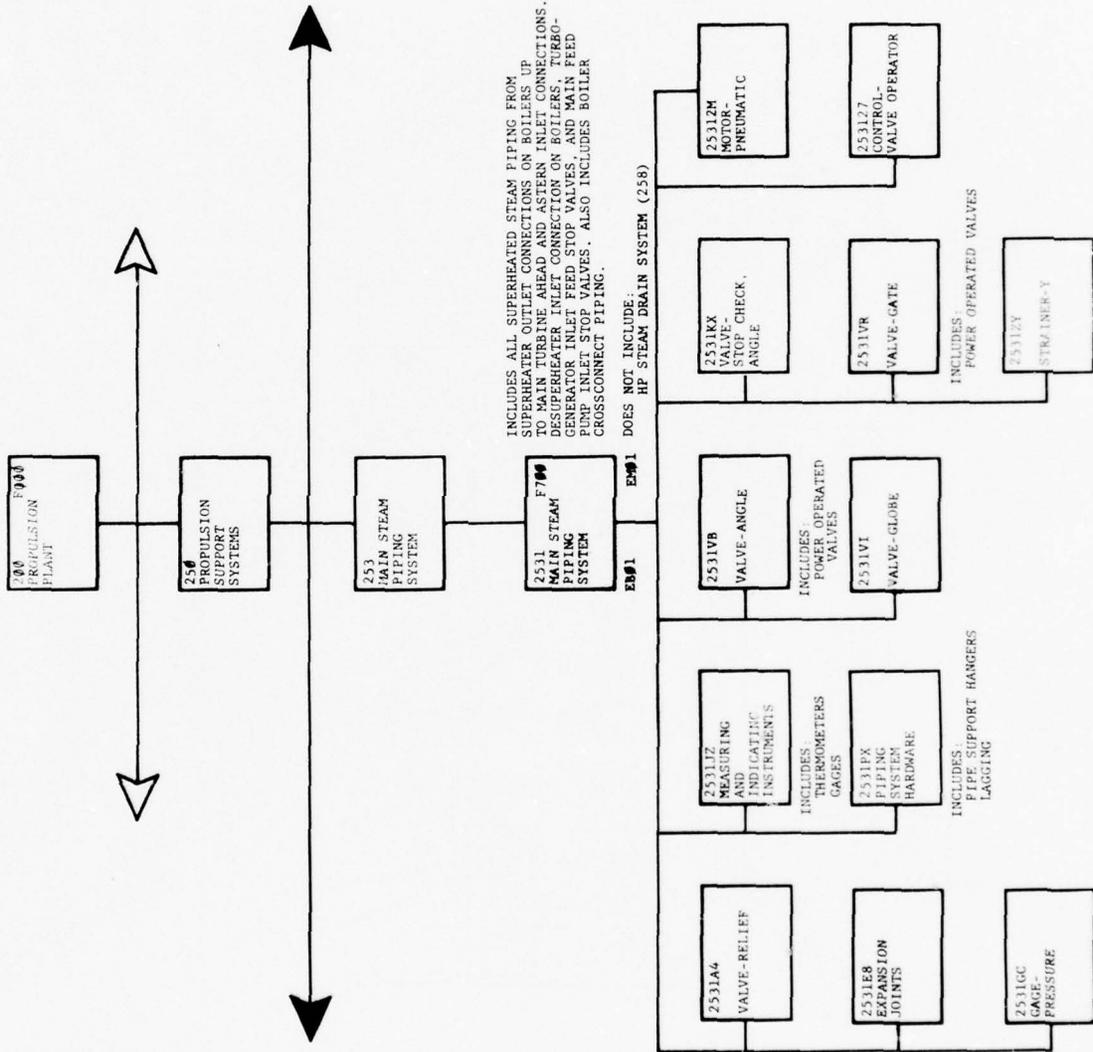


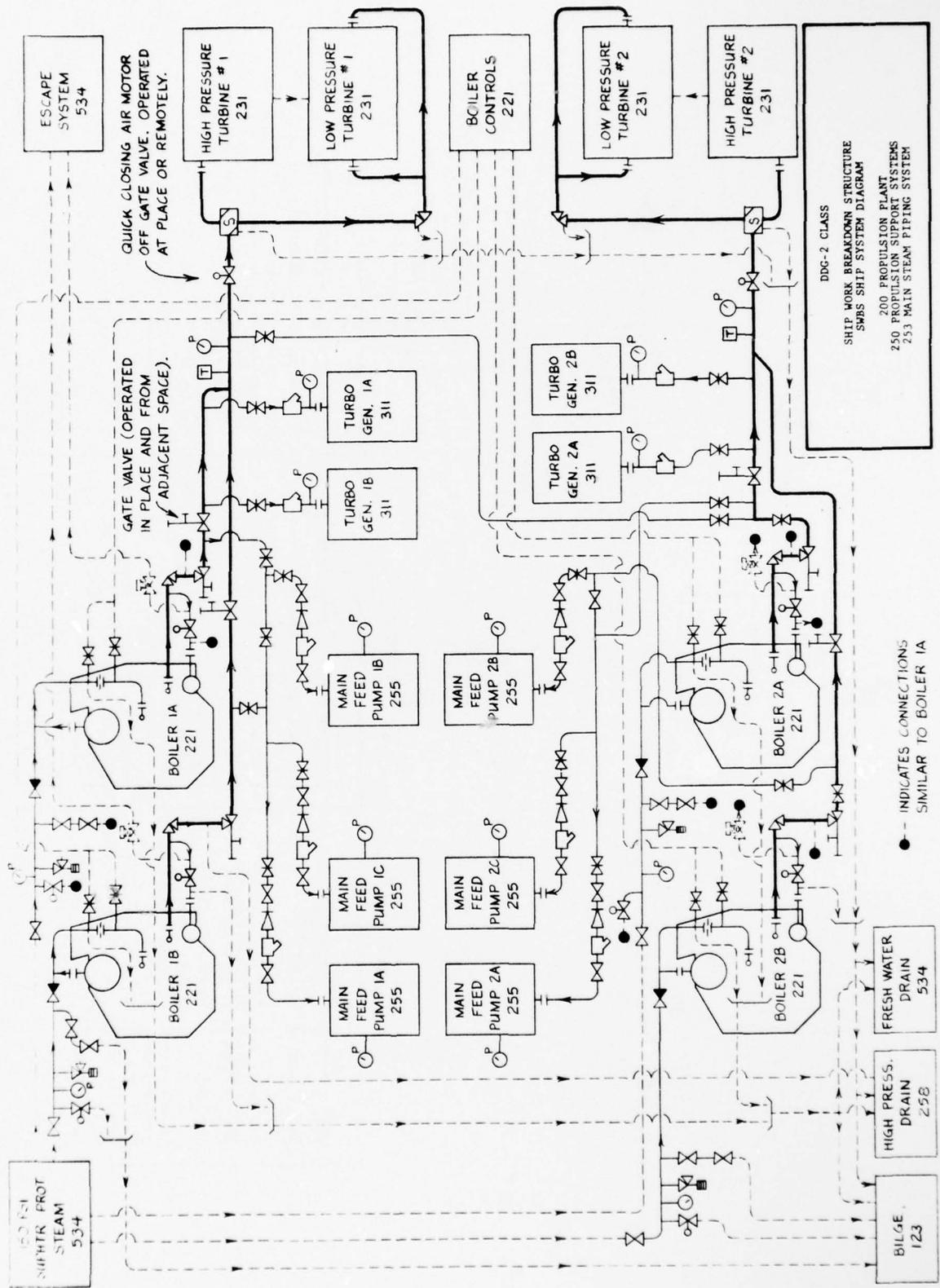


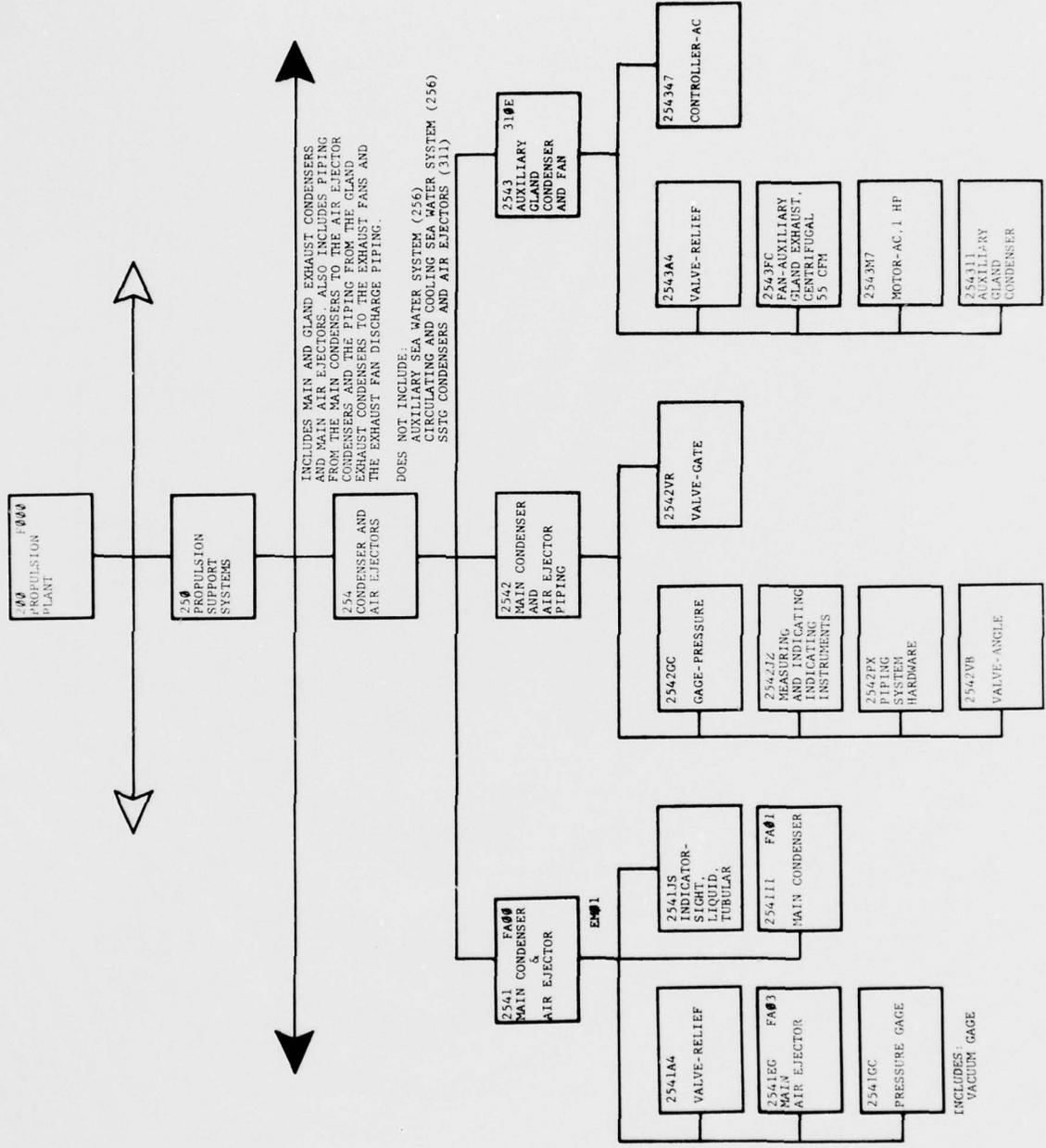


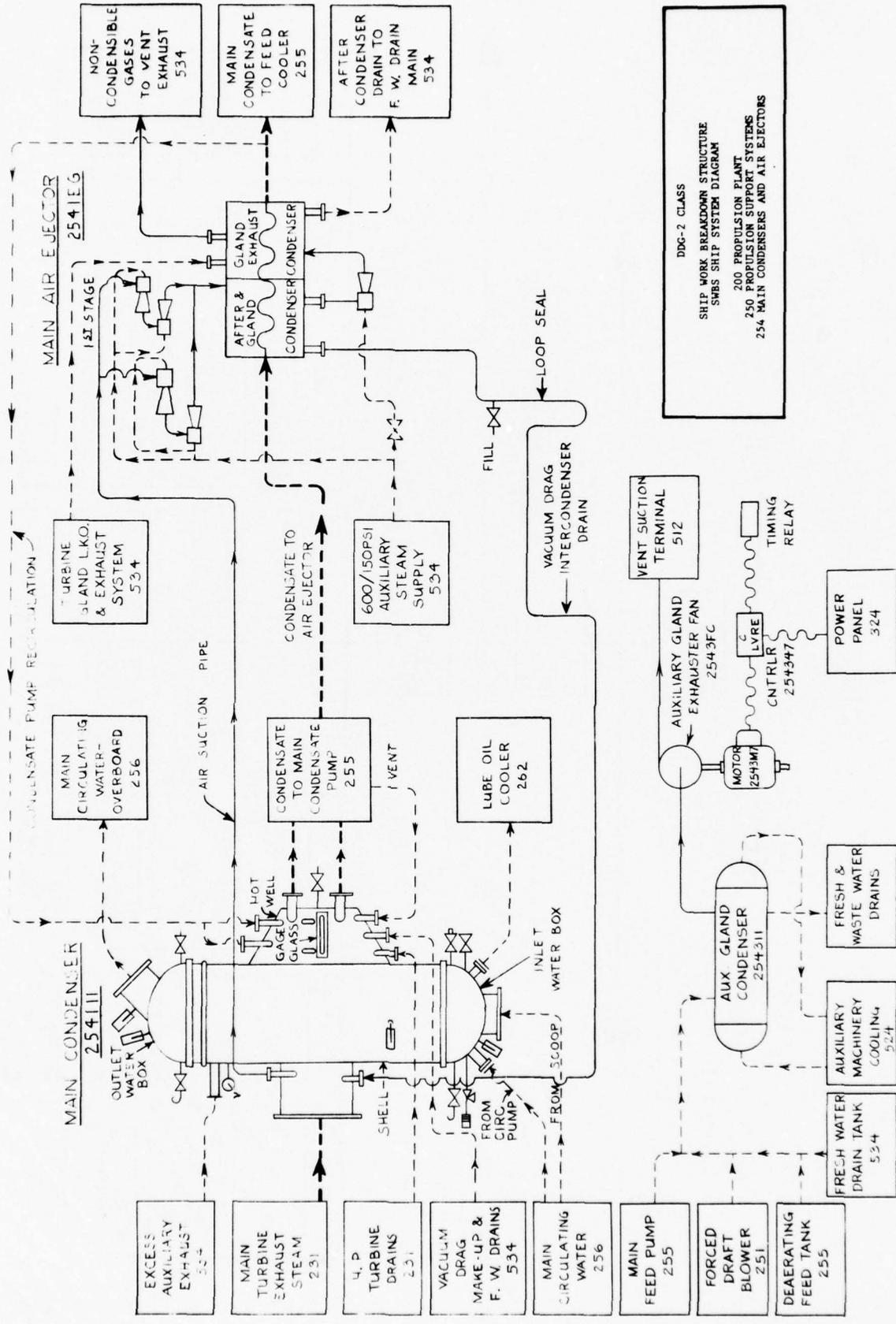


DDC-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWRS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 250 PROPULSION SUPPORT SYSTEMS
 252 PROPULSION CONTROL SYSTEM

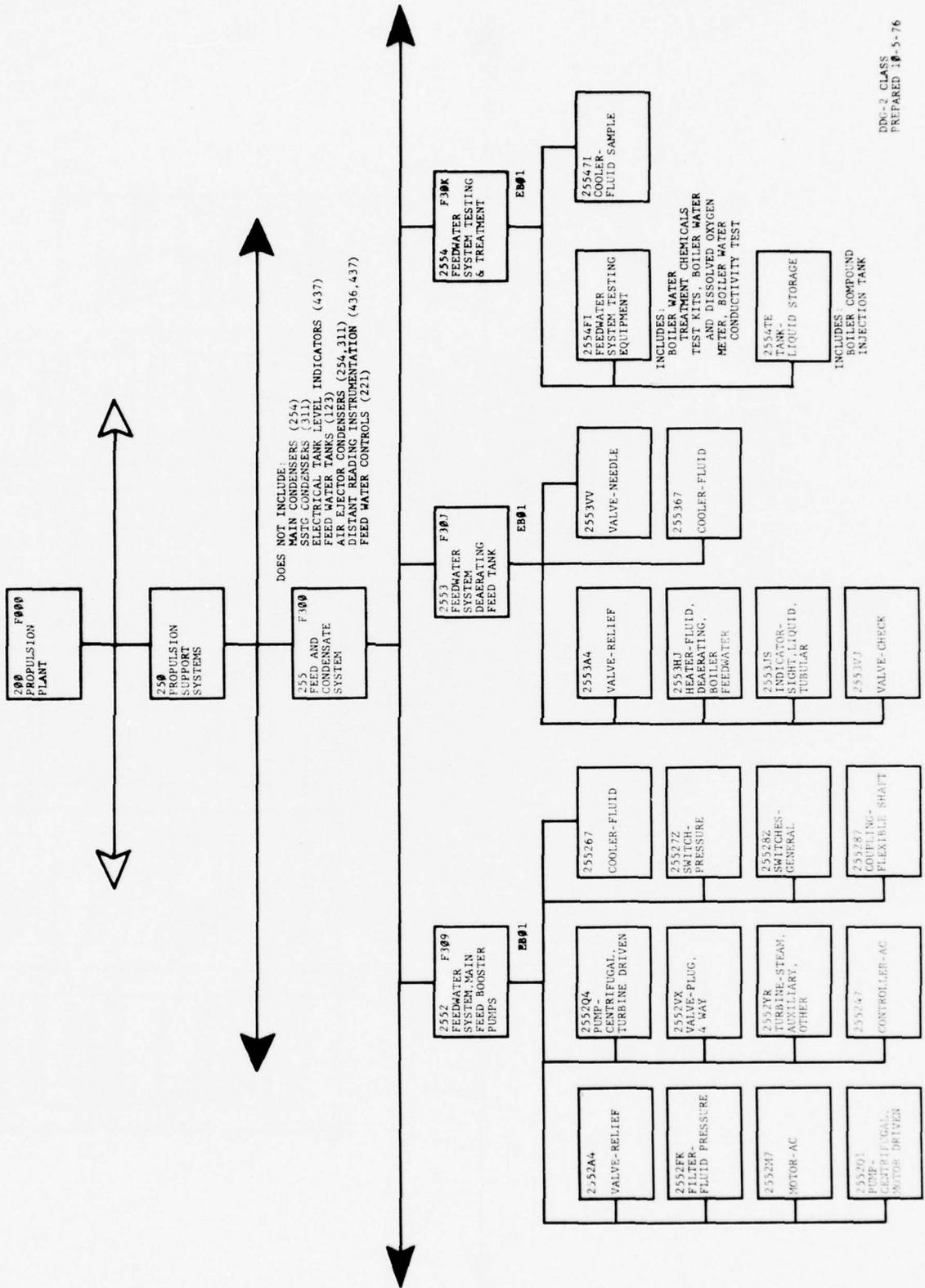


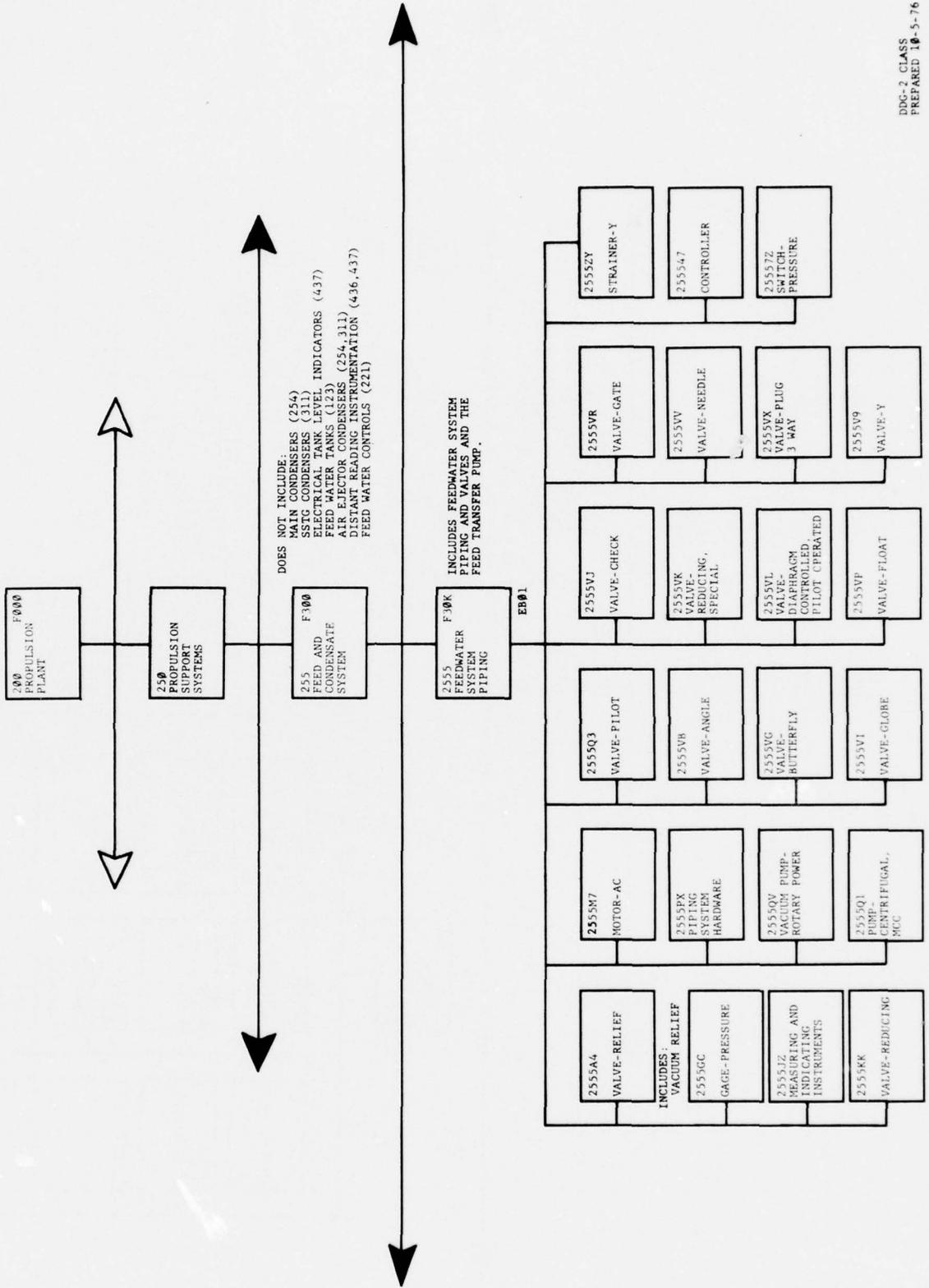


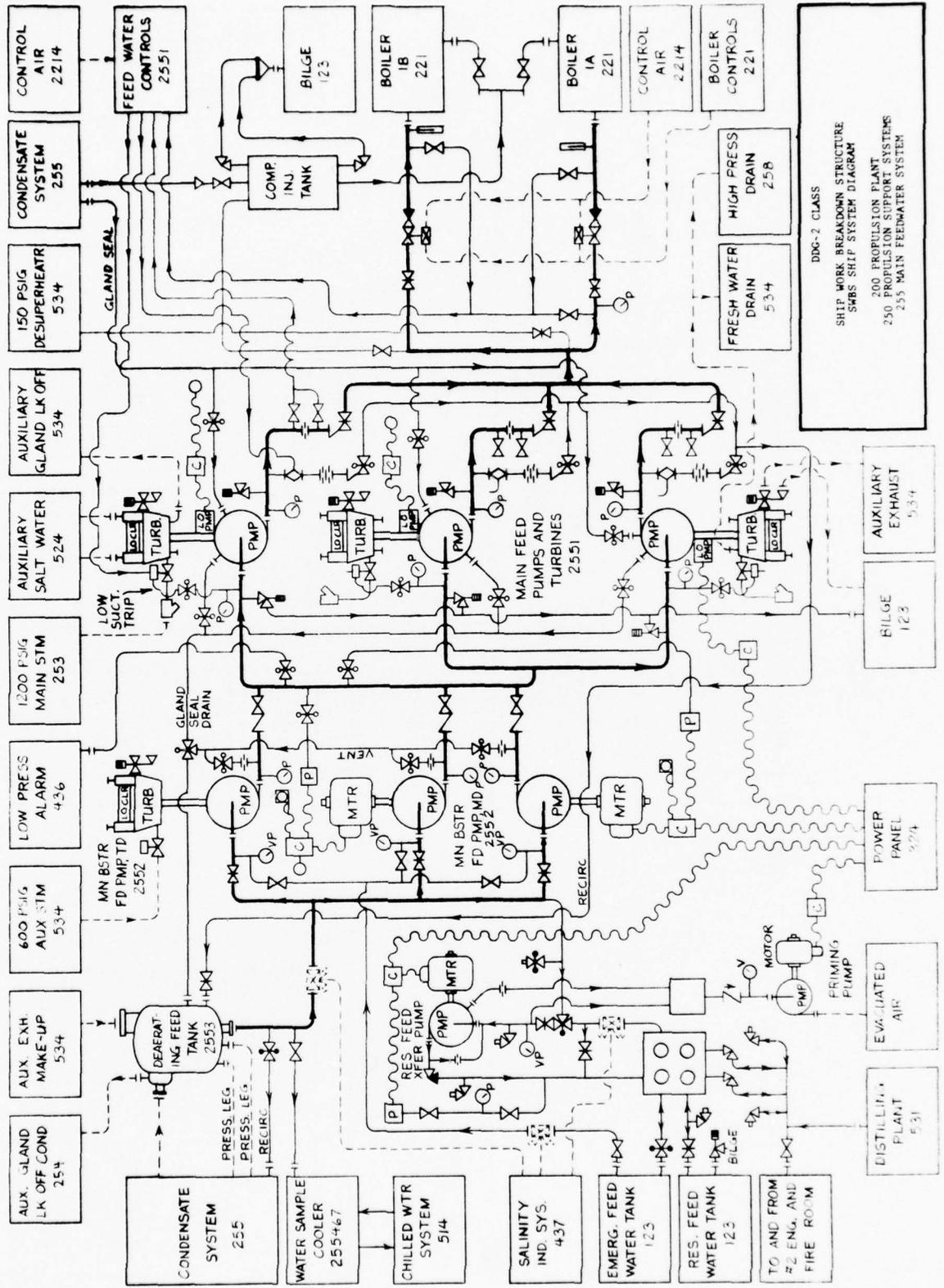




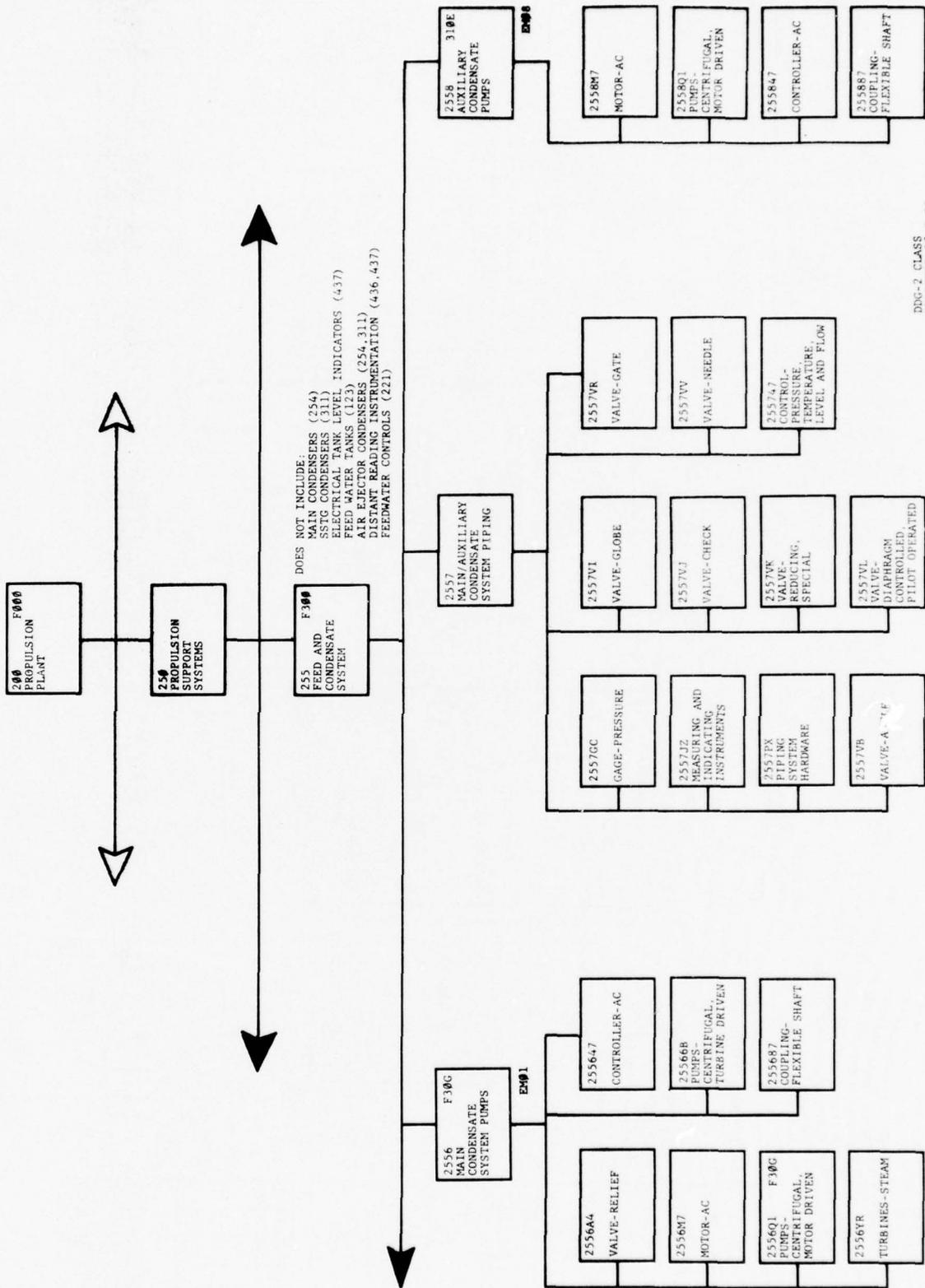
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 250 PROPULSION SUPPORT SYSTEMS
 254 MAIN CONDENSERS AND AIR EJECTORS



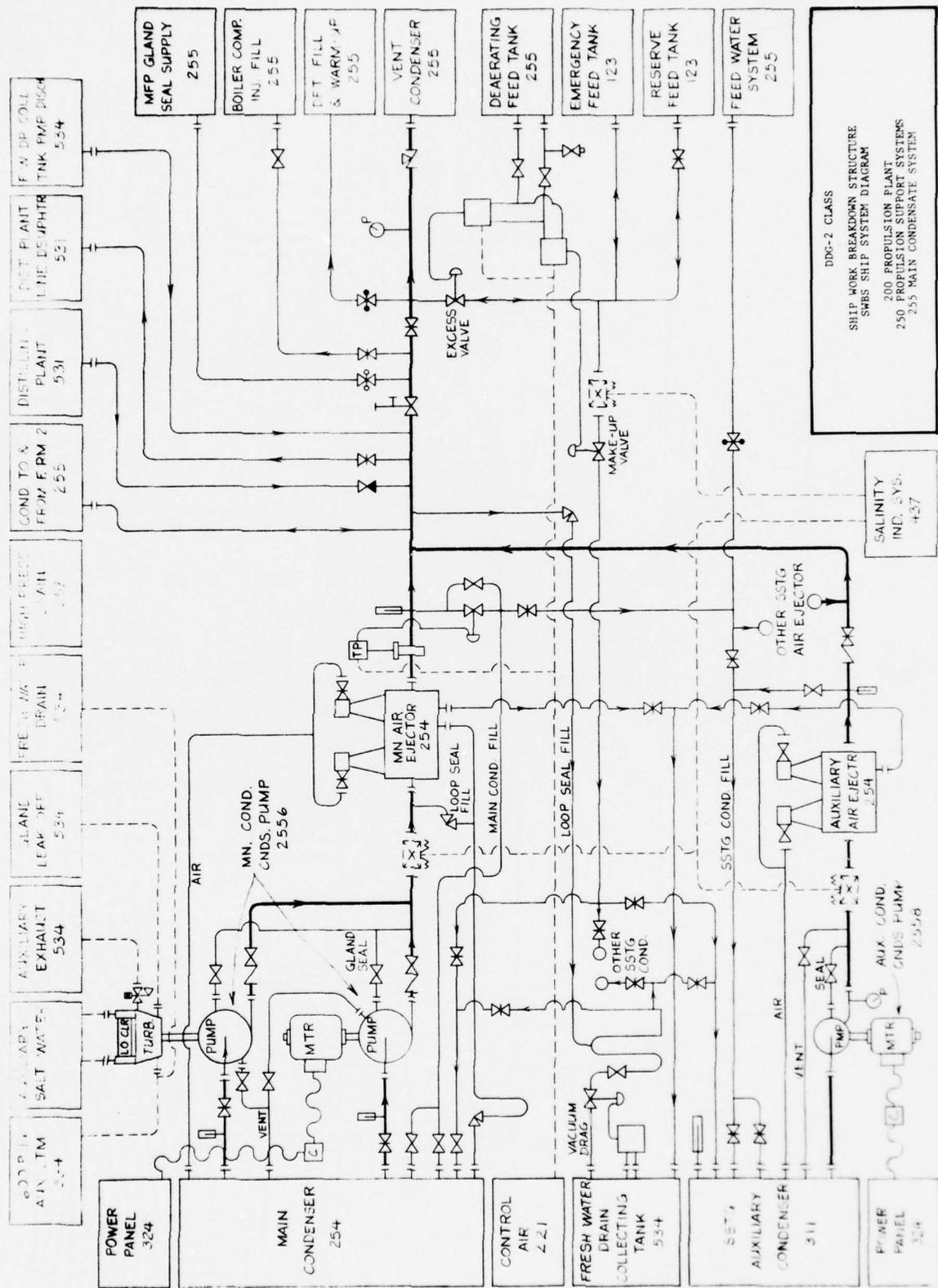




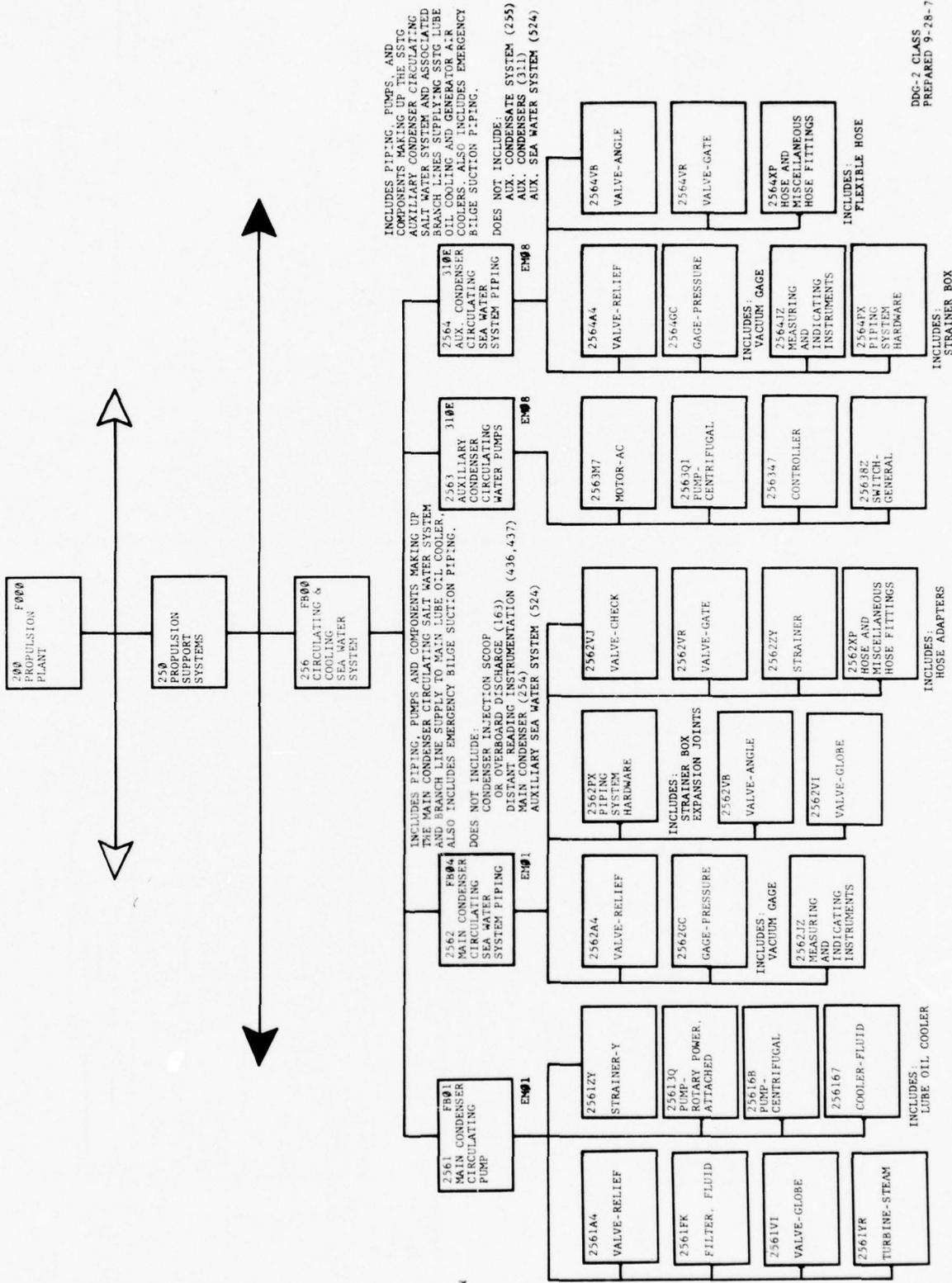
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SYSTEM DIAGRAM
 200 PROPULSION PLANT
 250 PROPULSION SUPPORT SYSTEMS
 255 MAIN FEEDWATER SYSTEM

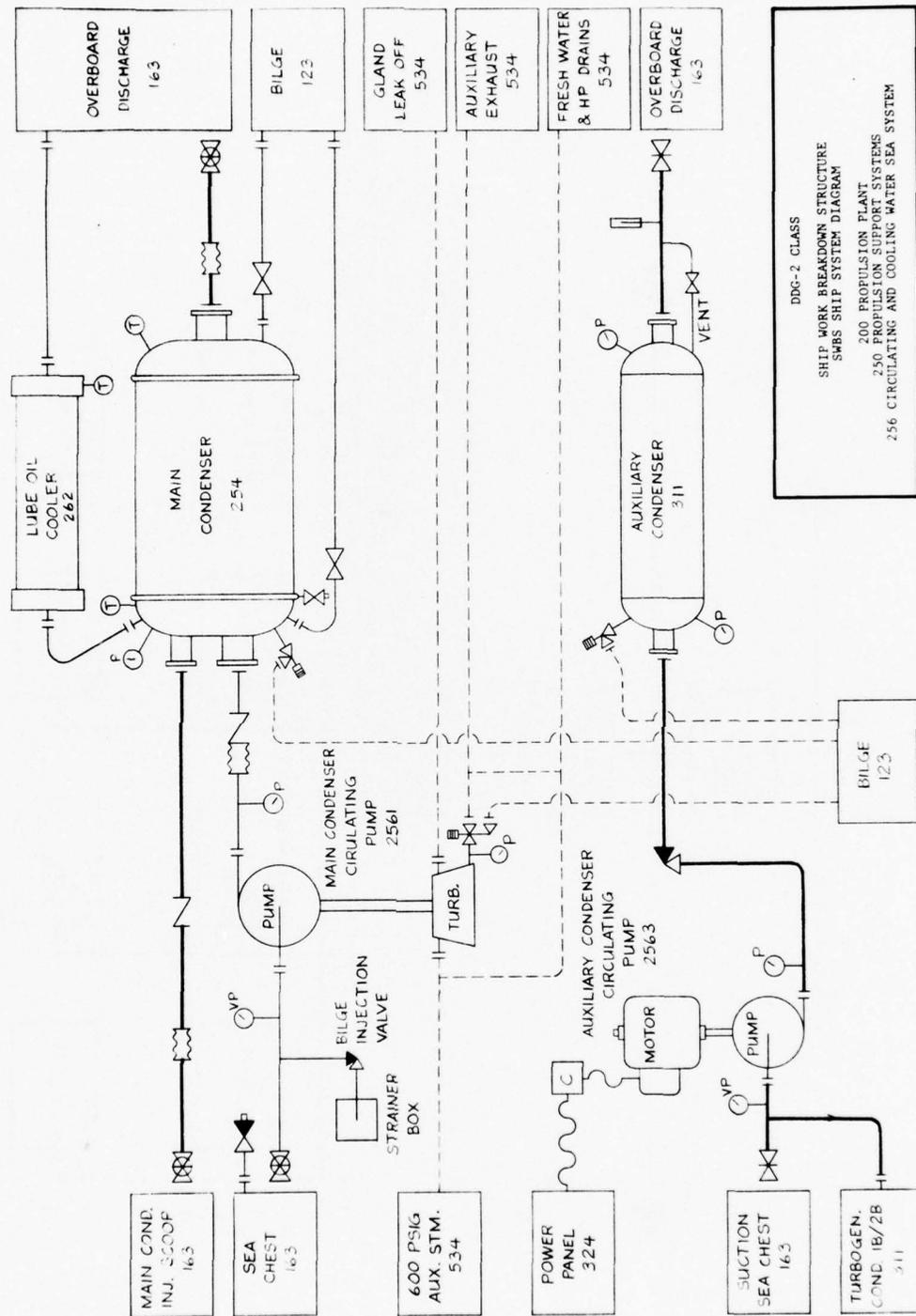


DWG-2 CLASS
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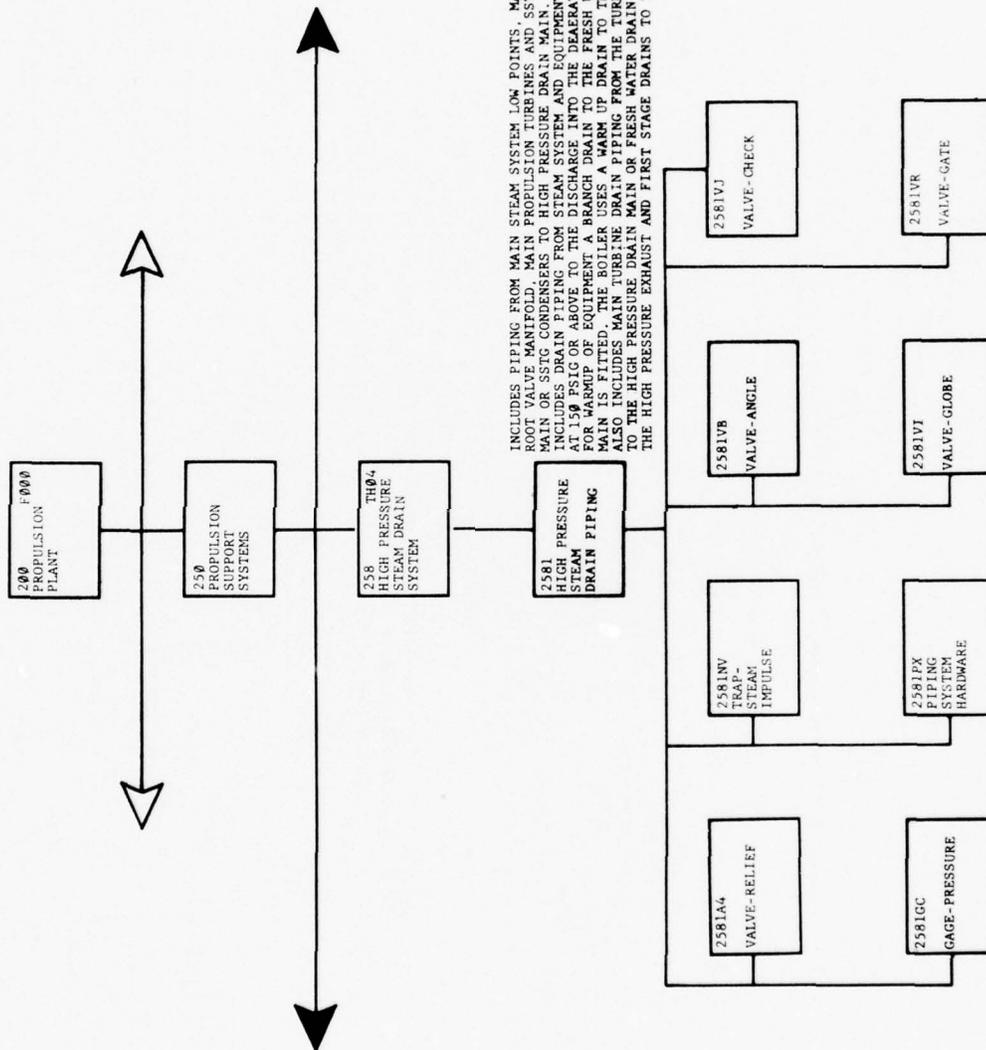


DDC-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SMBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 250 PROPULSION SUPPORT SYSTEMS
 255 MAIN CONDENSATE SYSTEM



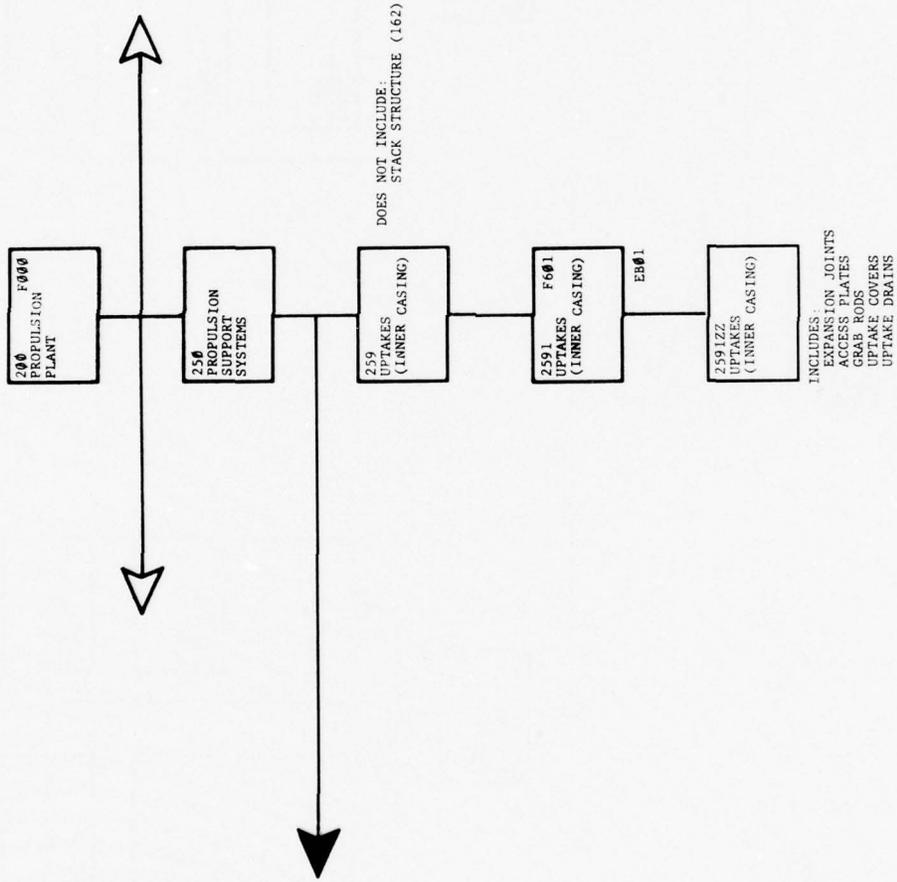


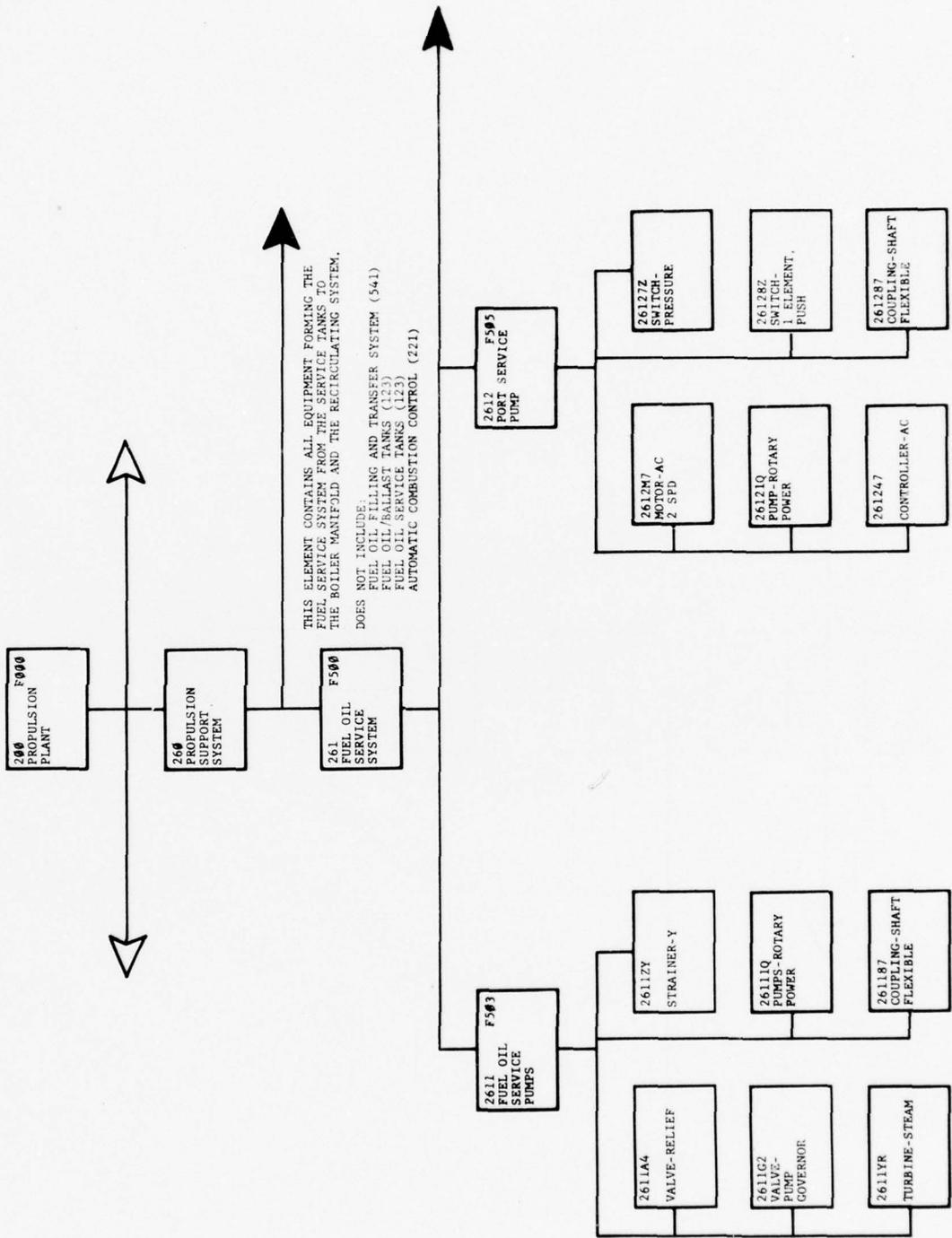
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 250 PROPULSION SUPPORT SYSTEMS
 256 CIRCULATING AND COOLING WATER SEA SYSTEM

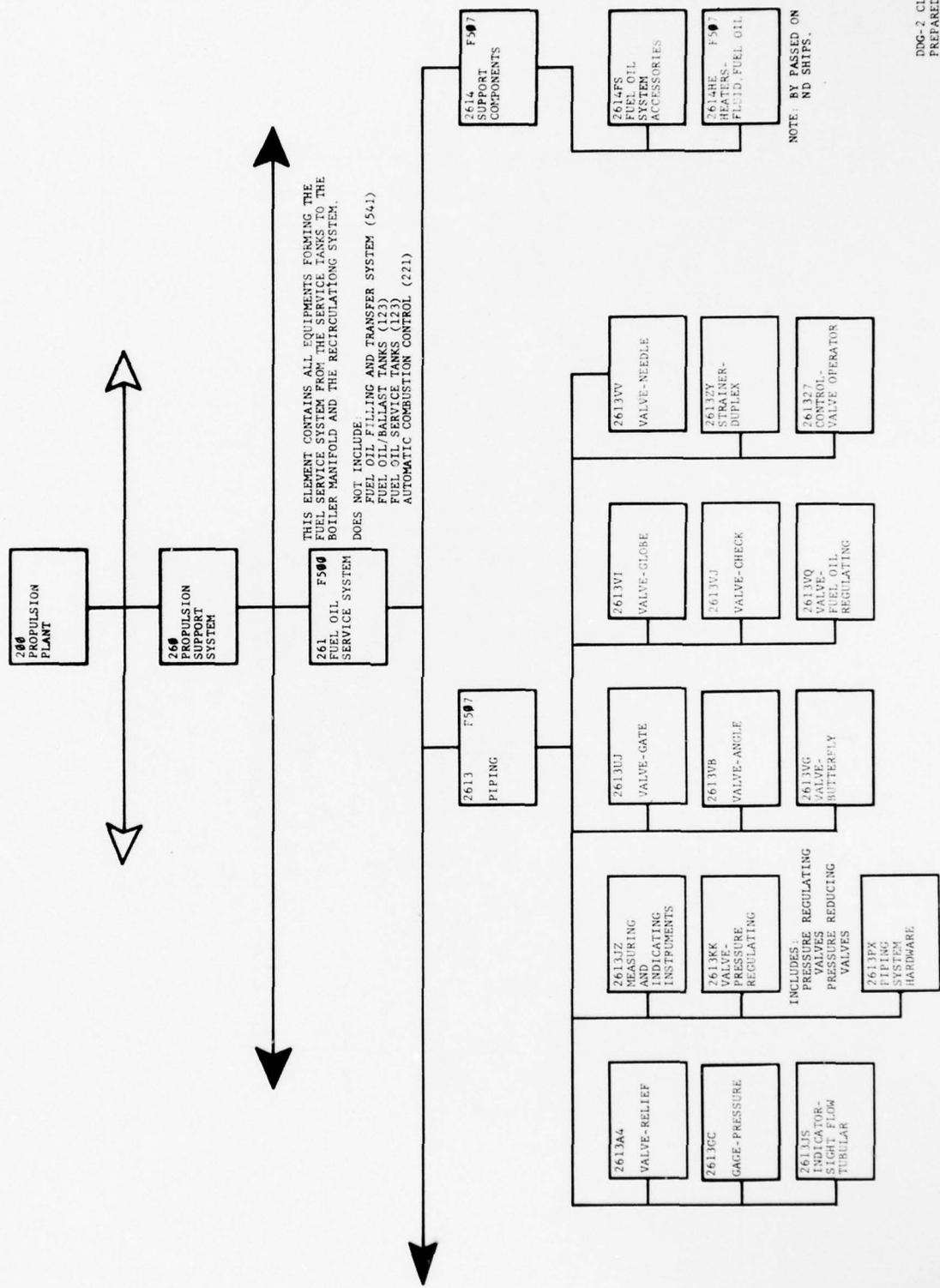


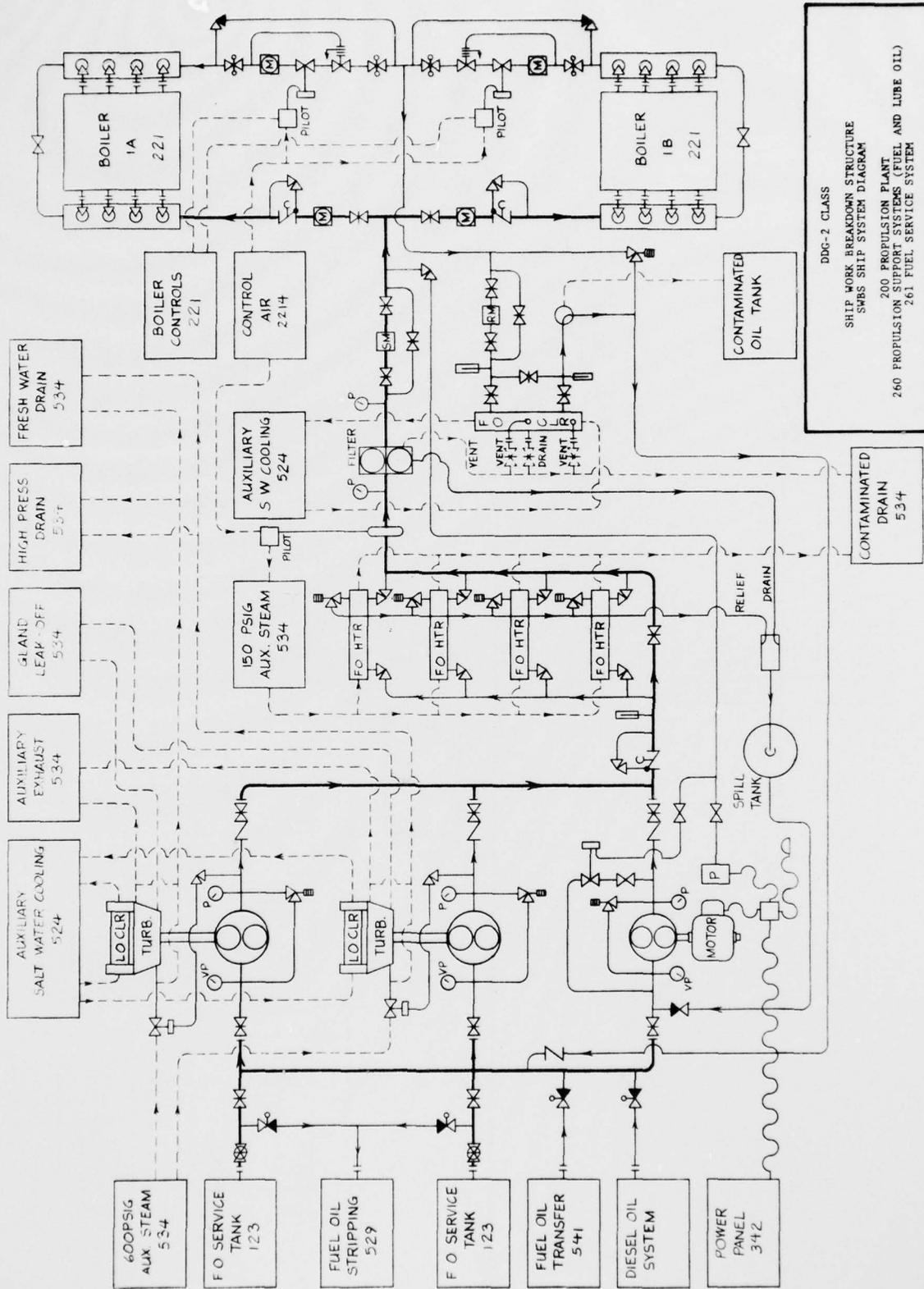
INCLUDES PIPING FROM MAIN STEAM SYSTEM LOW POINTS, MAIN STEAM ROOT VALVE MANIFOLD, MAIN PROPULSION TURBINES AND SSTG SETS TO MAIN OR SSTG CONDENSERS TO HIGH PRESSURE DRAIN MAIN. ALSO INCLUDES DRAIN PIPING FROM STEAM SYSTEM AND EQUIPMENT OPERATING AT 150 PSIG OR ABOVE TO THE DISCHARGE INTO THE DEAERATING FEED TANK. FOR WARMUP OF EQUIPMENT, PRESSURE DRAIN MAIN IS USED. ALSO INCLUDES MAIN TURBINE DRAIN OR FRESH WATER DRAIN FROM THE BILGES. ALSO INCLUDES MAIN TURBINE DRAIN PIPING FROM THE TURBINE STEAM CHEST TO THE HIGH PRESSURE DRAIN MAIN OR FRESH WATER DRAIN MAIN AND FROM THE HIGH PRESSURE EXHAUST AND FIRST STAGE DRAINS TO THE MAIN CONDENSER.

INCLUDES:
 FUNNELS
 LAGGING & INSULATION
 BULKHEAD CONNECTIONS
 PIPING SUPPORT HANGERS
 ORIFICES

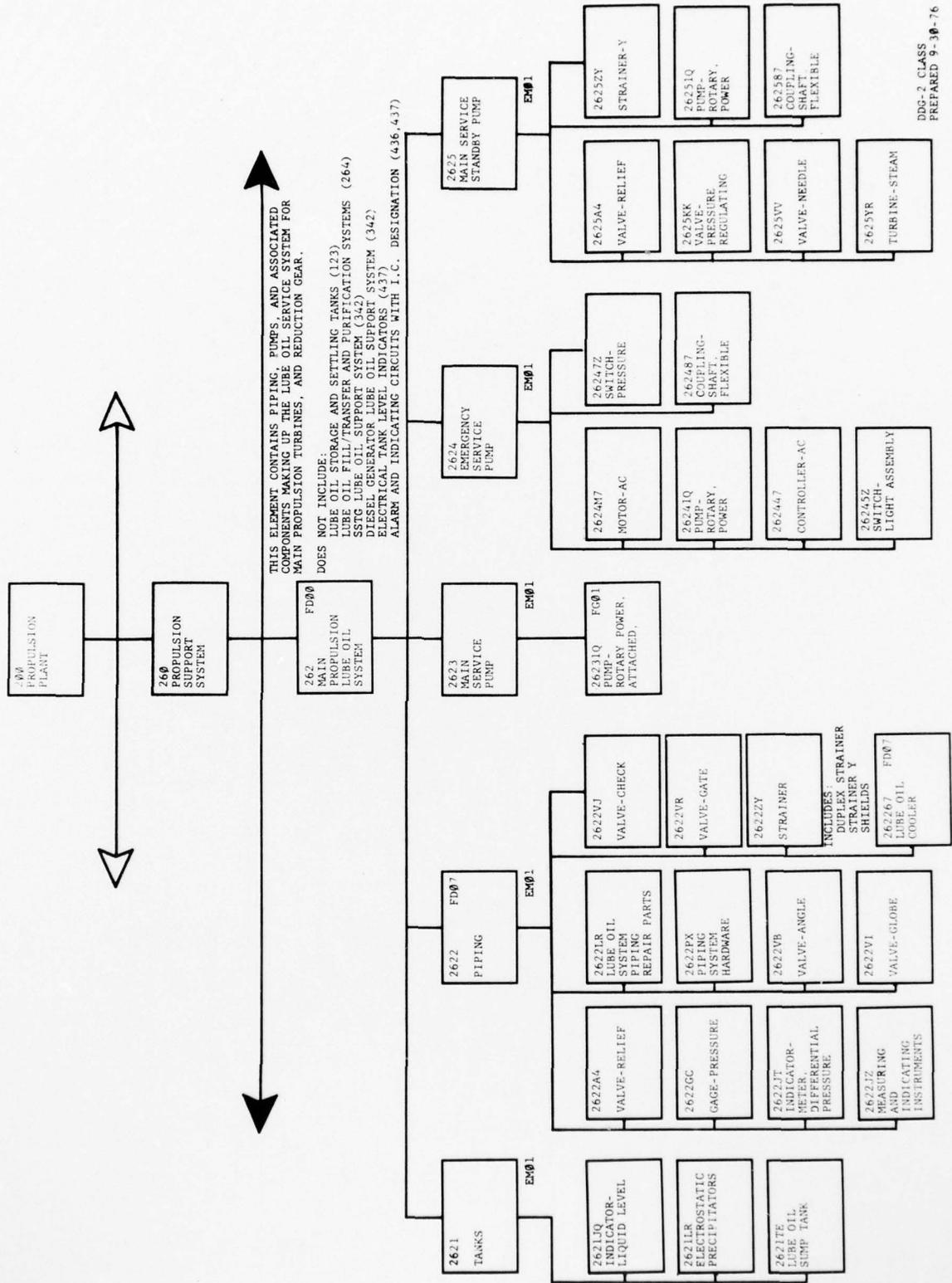




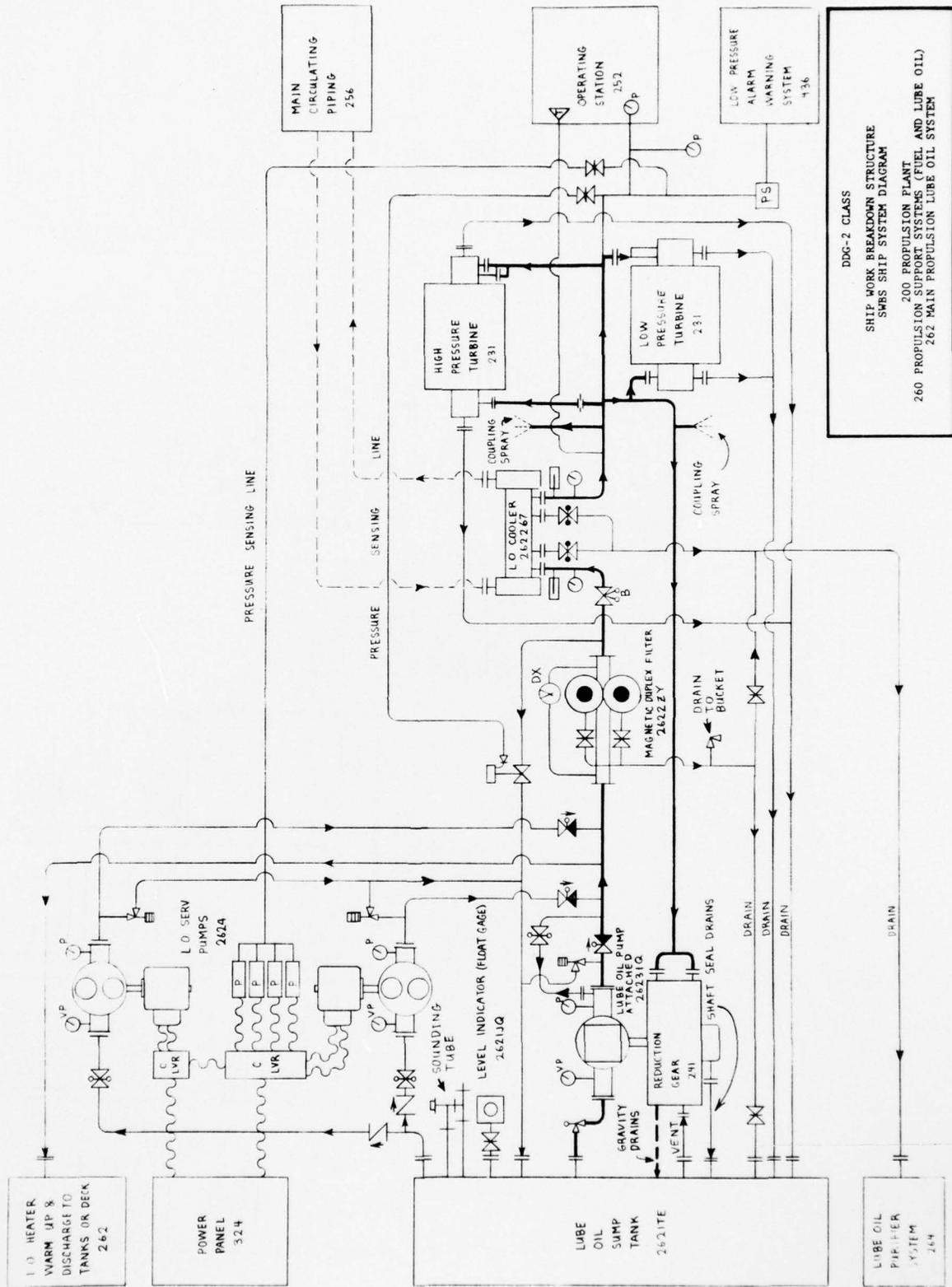




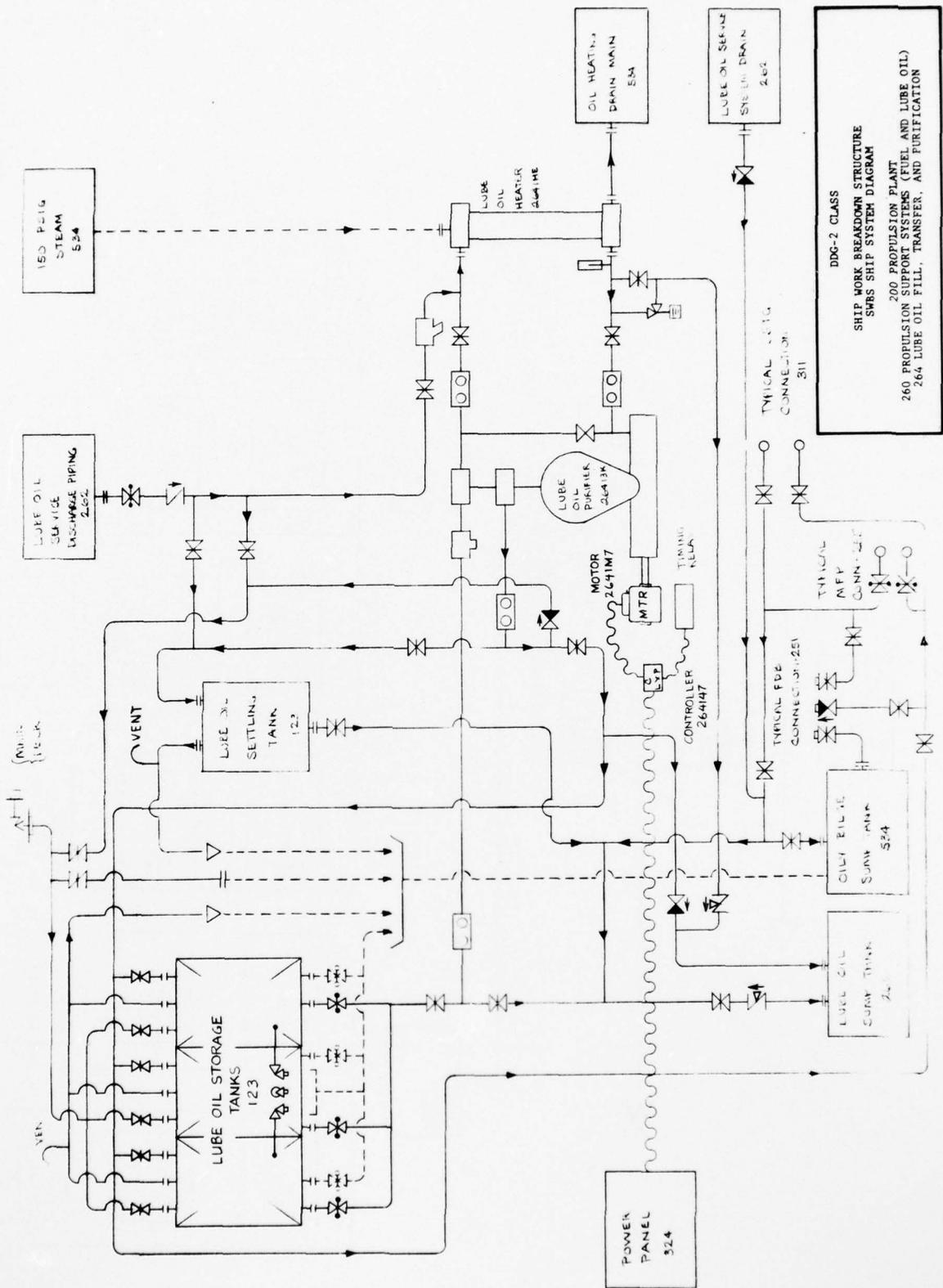
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 260 PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)
 261 FUEL SERVICE SYSTEM



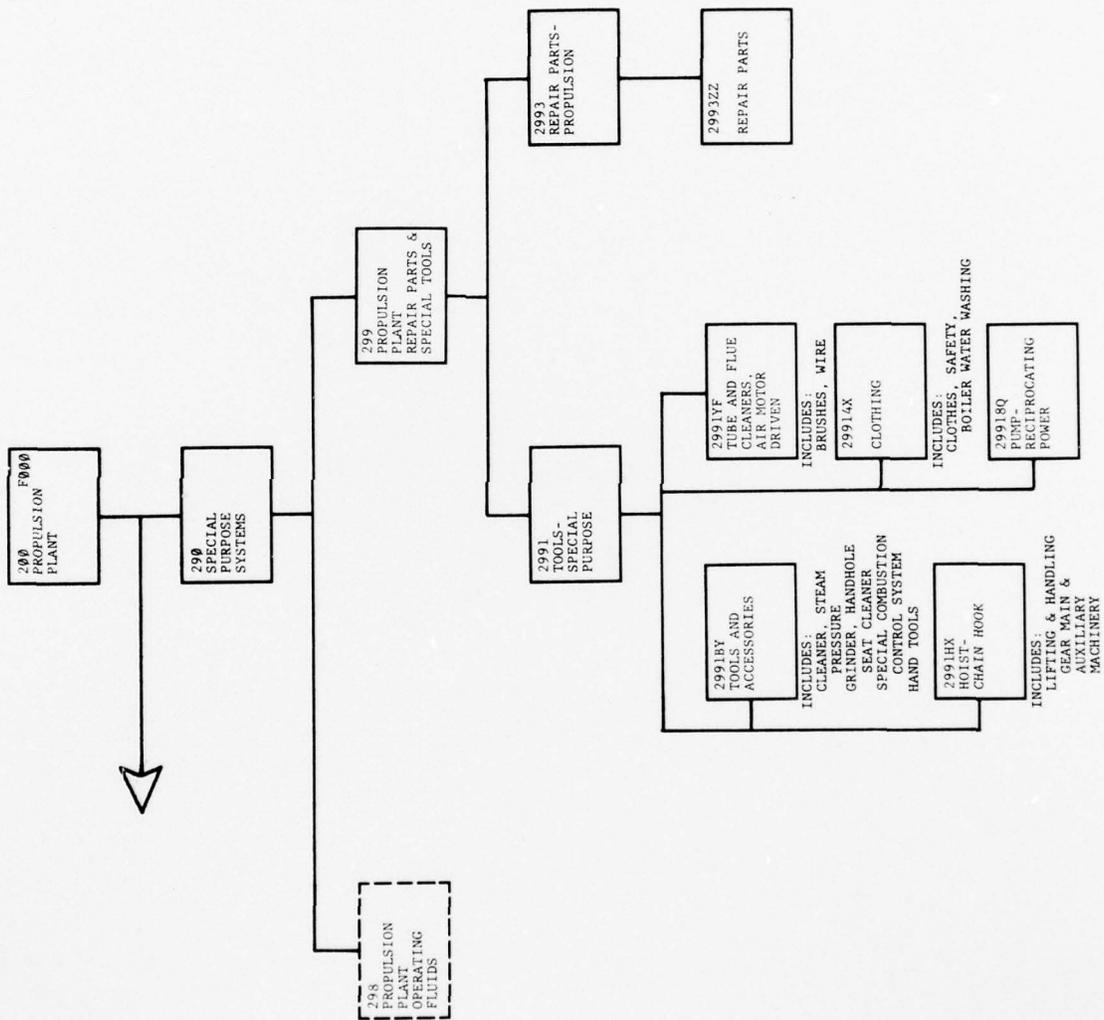
DDG-2 CLASS
PREPARED 9-30-76

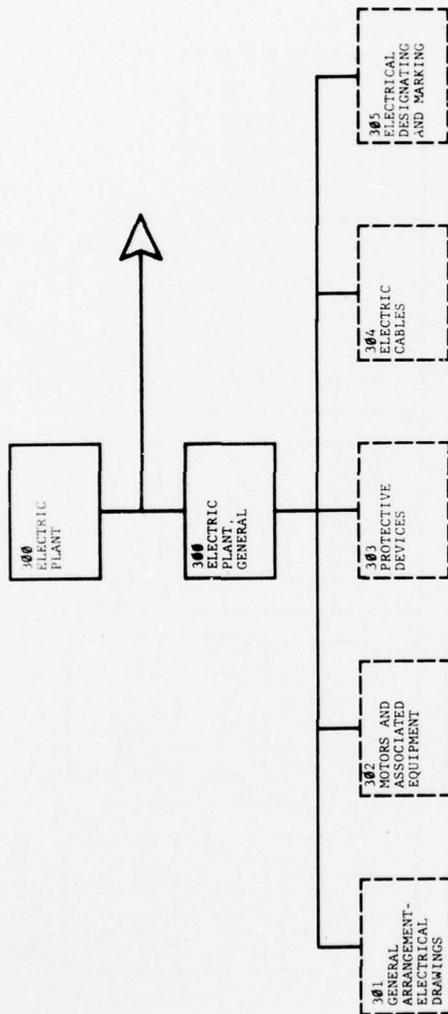


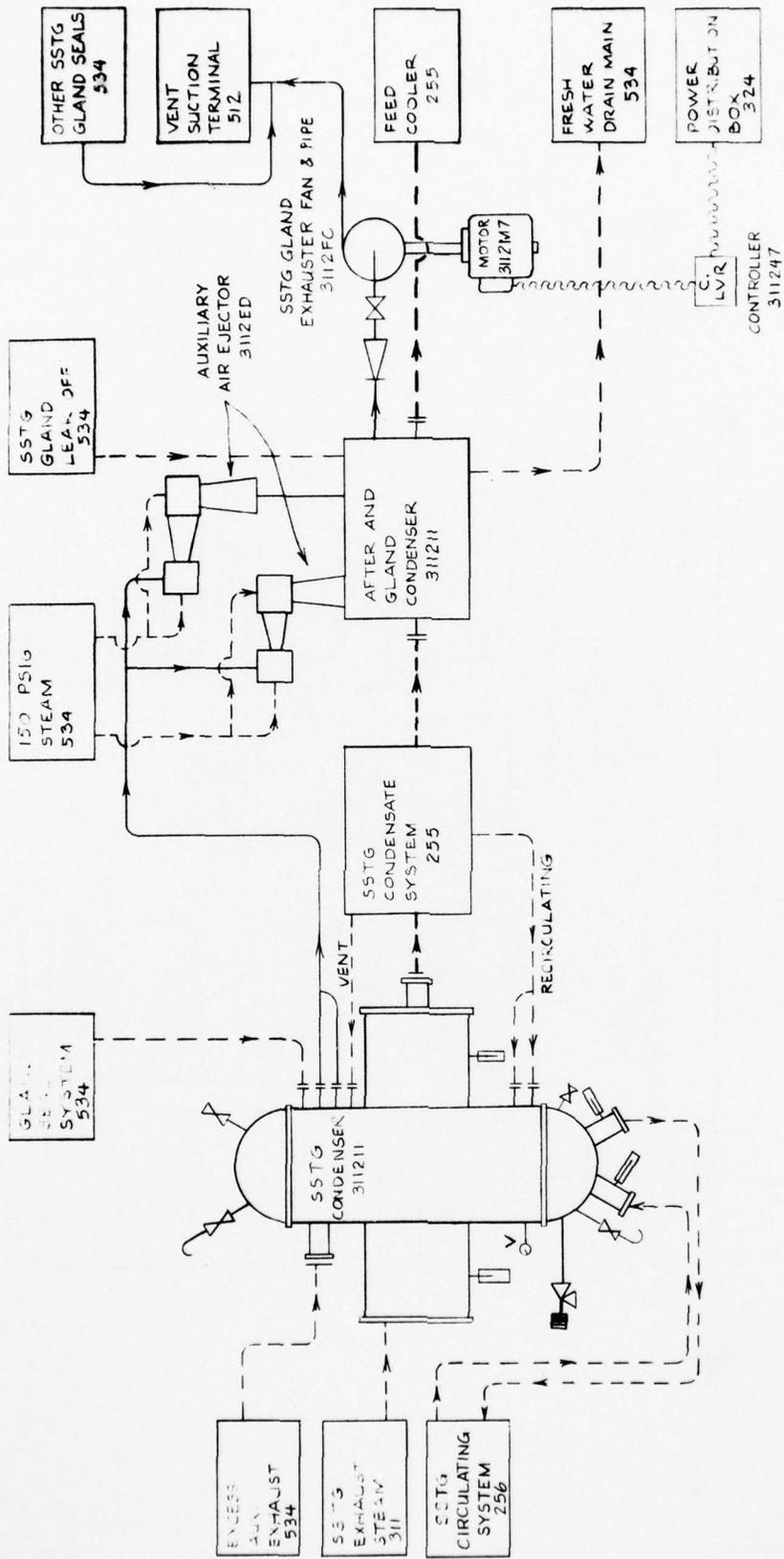
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 260 PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)
 262 MAIN PROPULSION LUBE OIL SYSTEM



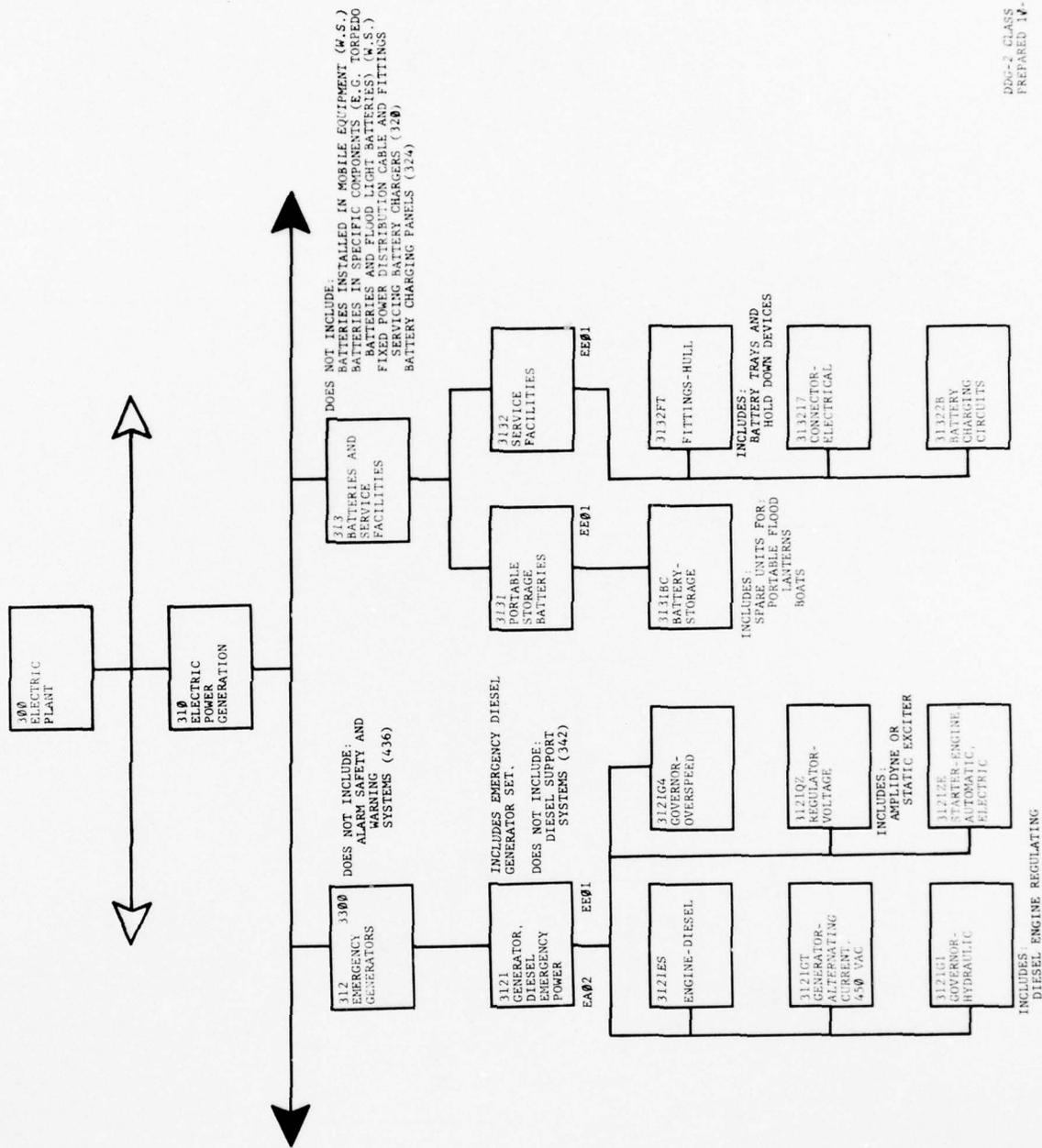
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SNRS SHIP SYSTEM DIAGRAM
 200 PROPULSION PLANT
 260 PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)
 264 LUBE OIL FILL, TRANSFER, AND PURIFICATION

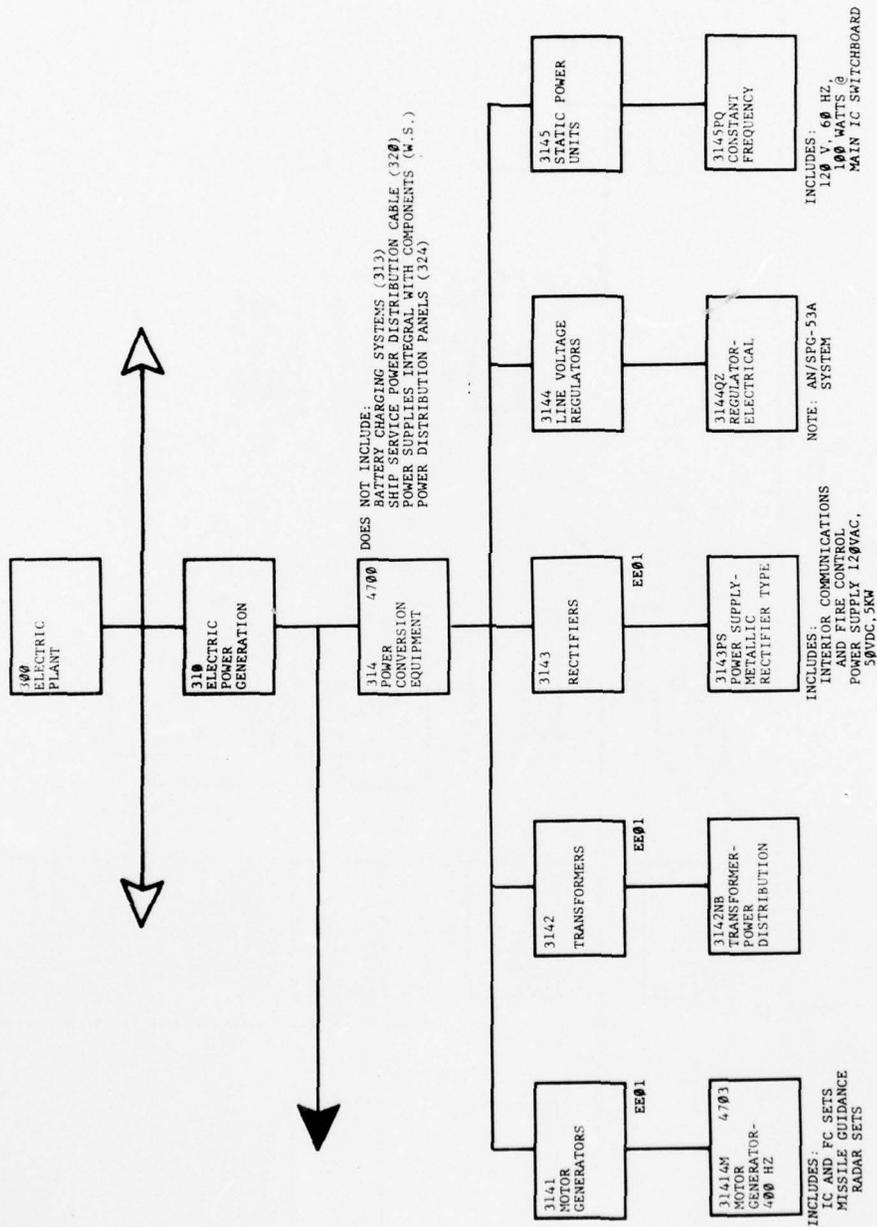


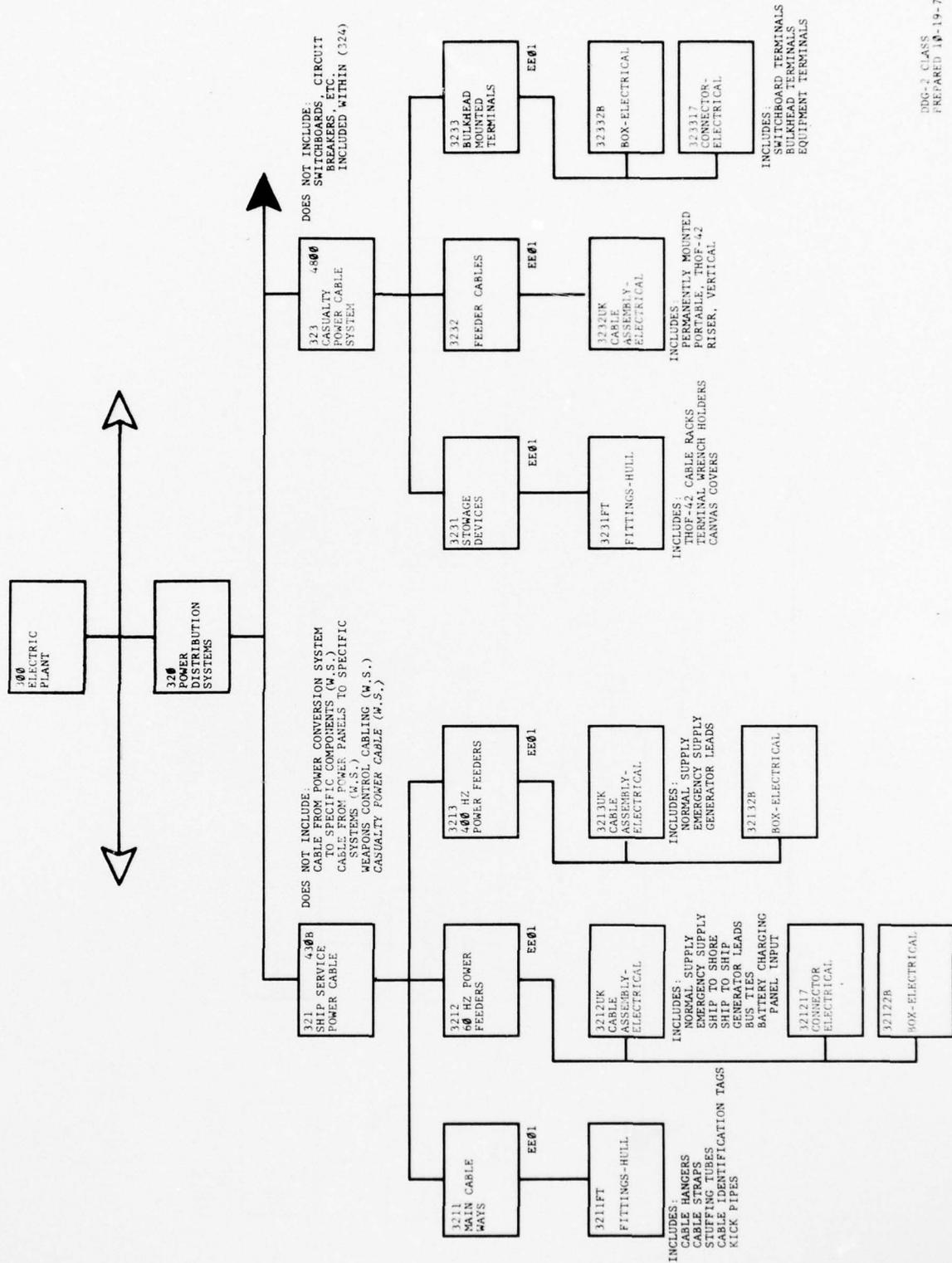


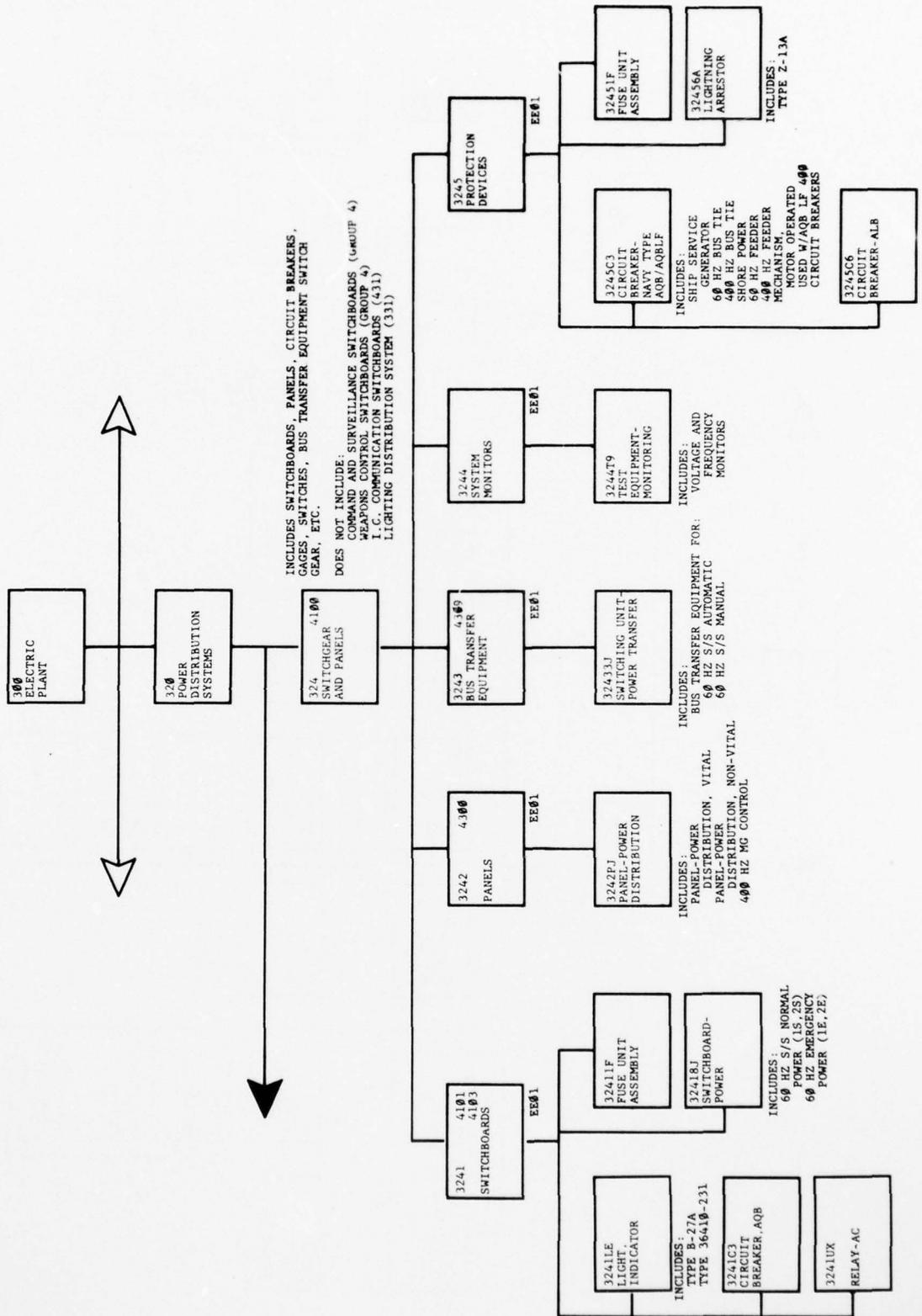


DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SMS SHIP SYSTEM DIAGRAM
 300 ELECTRIC PLANT
 310 ELECTRIC POWER GENERATION
 311 SHIP'S SERVICE POWER GENERATION CONDENSERS



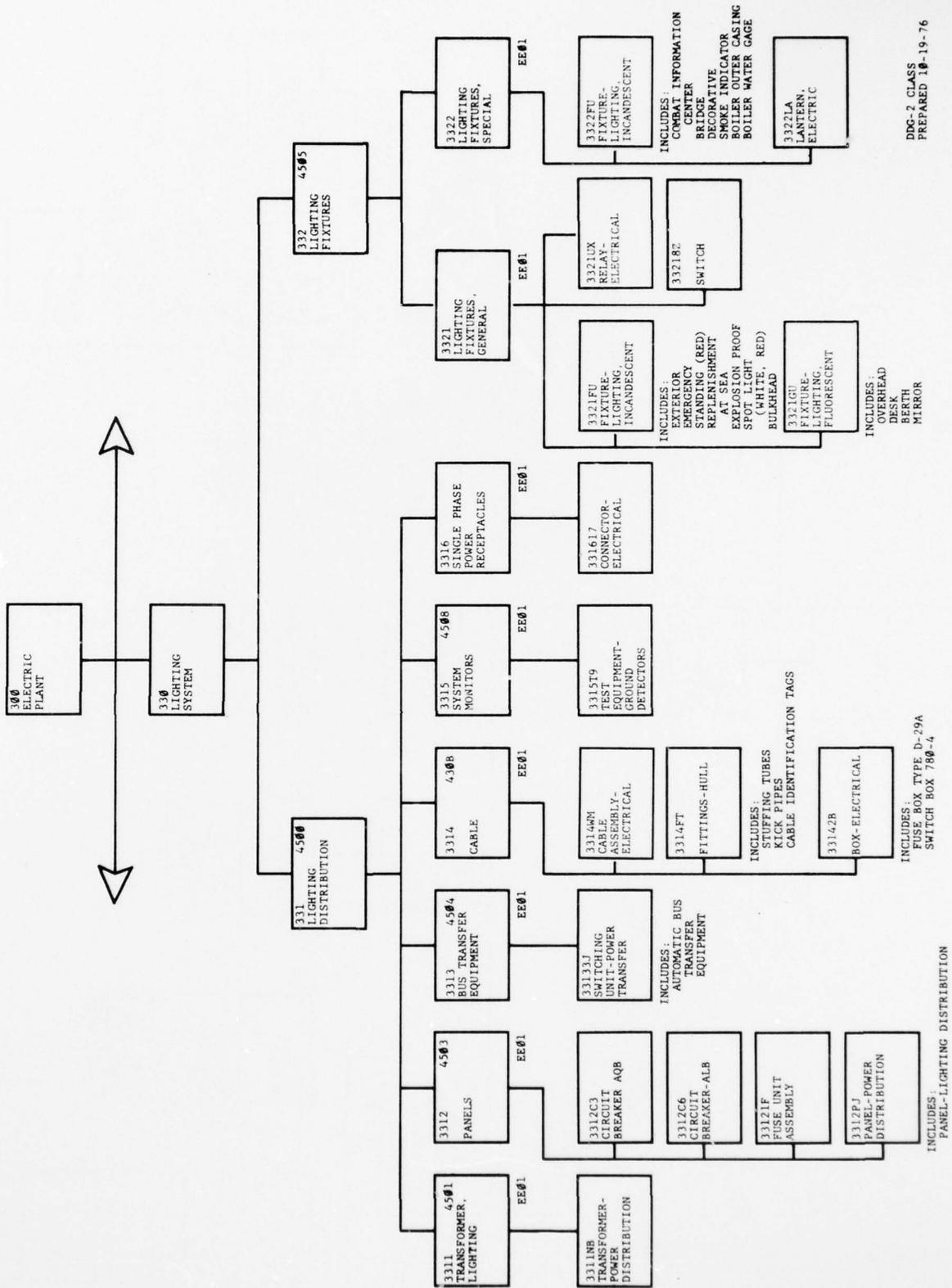






INCLUDES SWITCHBOARDS, PANELS, CIRCUIT BREAKERS, GAGES, SWITCHES, BUS TRANSFER EQUIPMENT SWITCH GEAR, ETC.

DOES NOT INCLUDE:
 COMMAND AND SURVEILLANCE SWITCHBOARDS (GROUP 4)
 WEAPONS CONTROL SWITCHBOARDS (GROUP 4)
 TELETYPE CONTROL SWITCHBOARDS (431)
 LIGHTING DISTRIBUTION SYSTEM (331)



AD-A051 777

ARINC RESEARCH CORP ANNAPOLIS MD
SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR D--ETC(U)
NOV 76

F/G 13/10

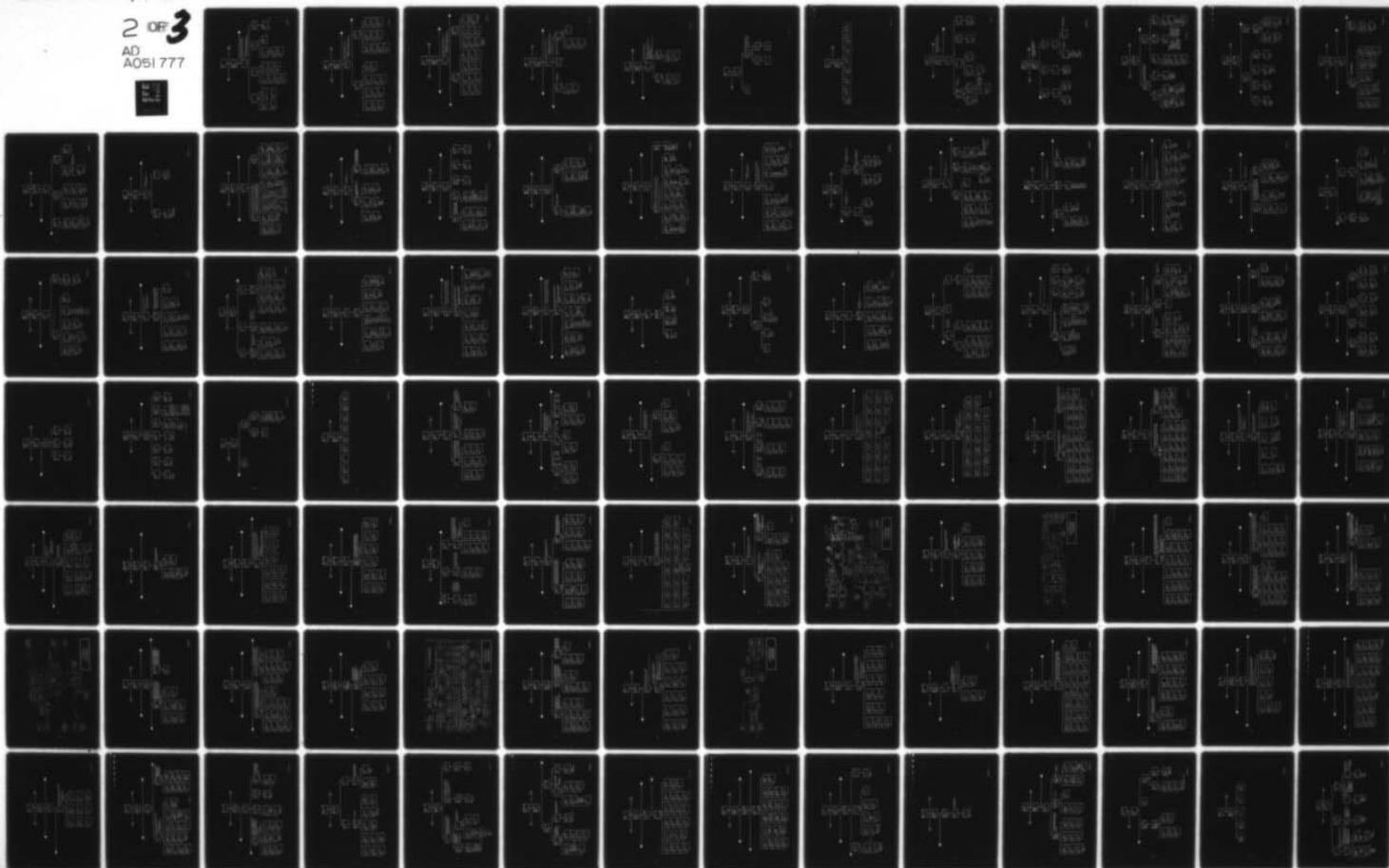
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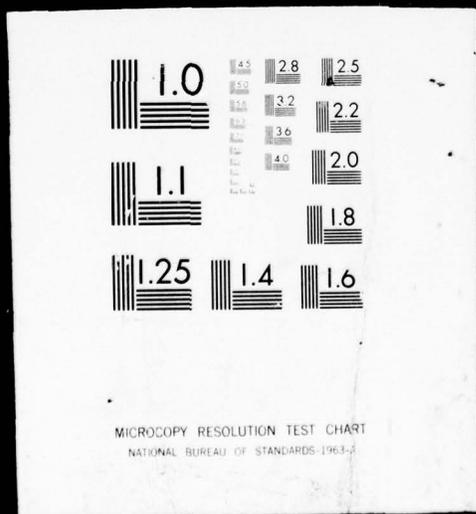
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AD
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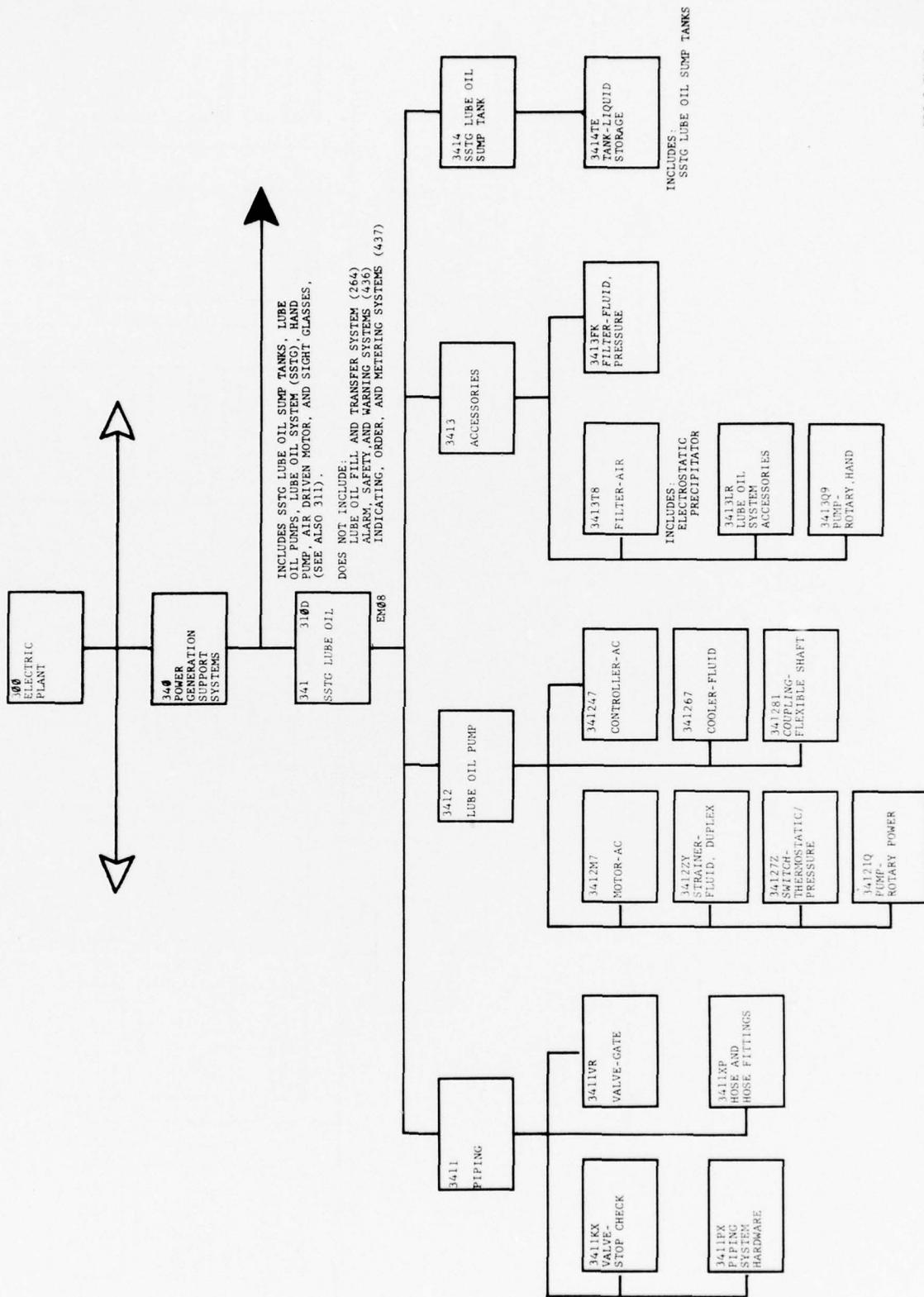


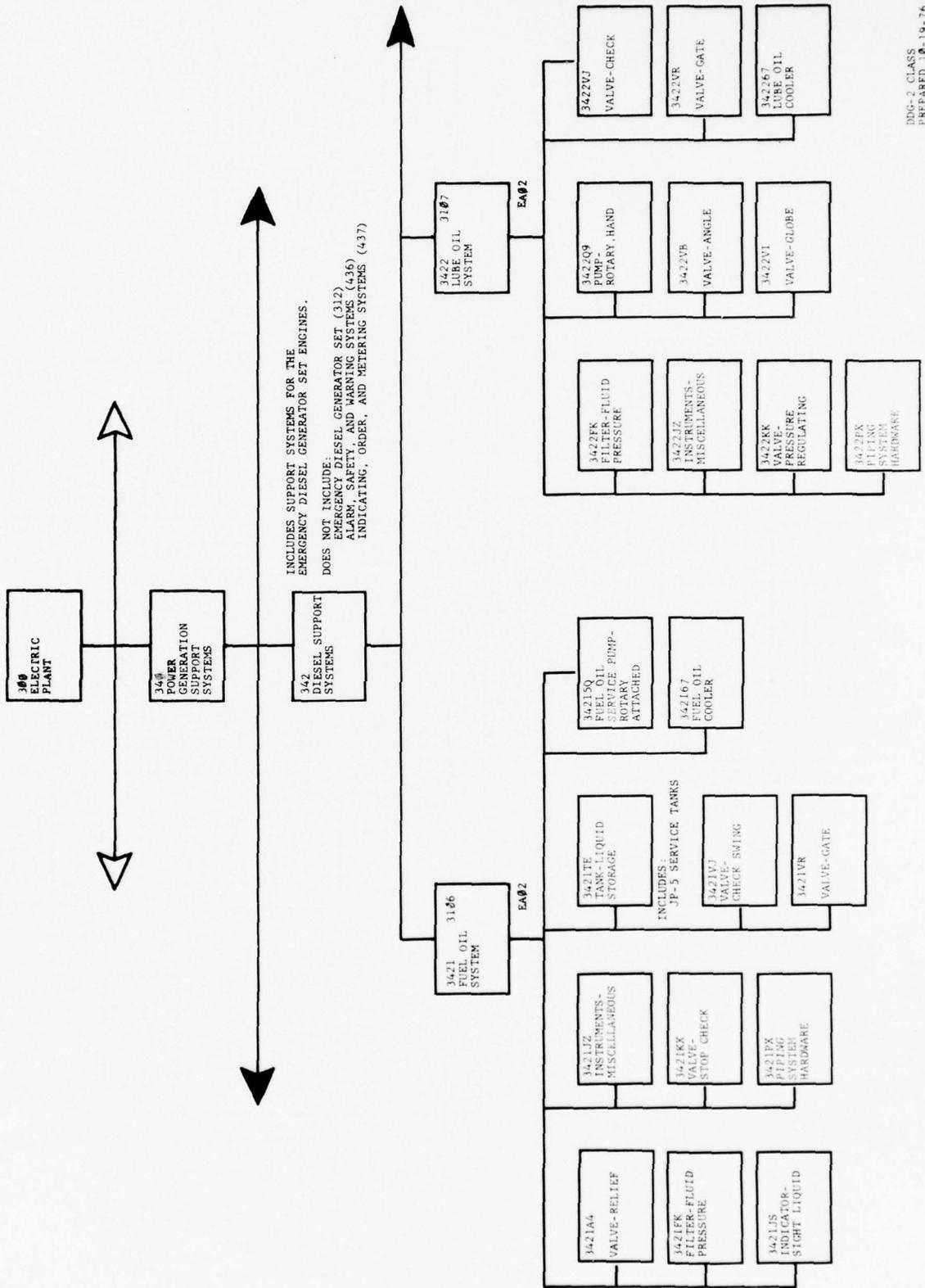
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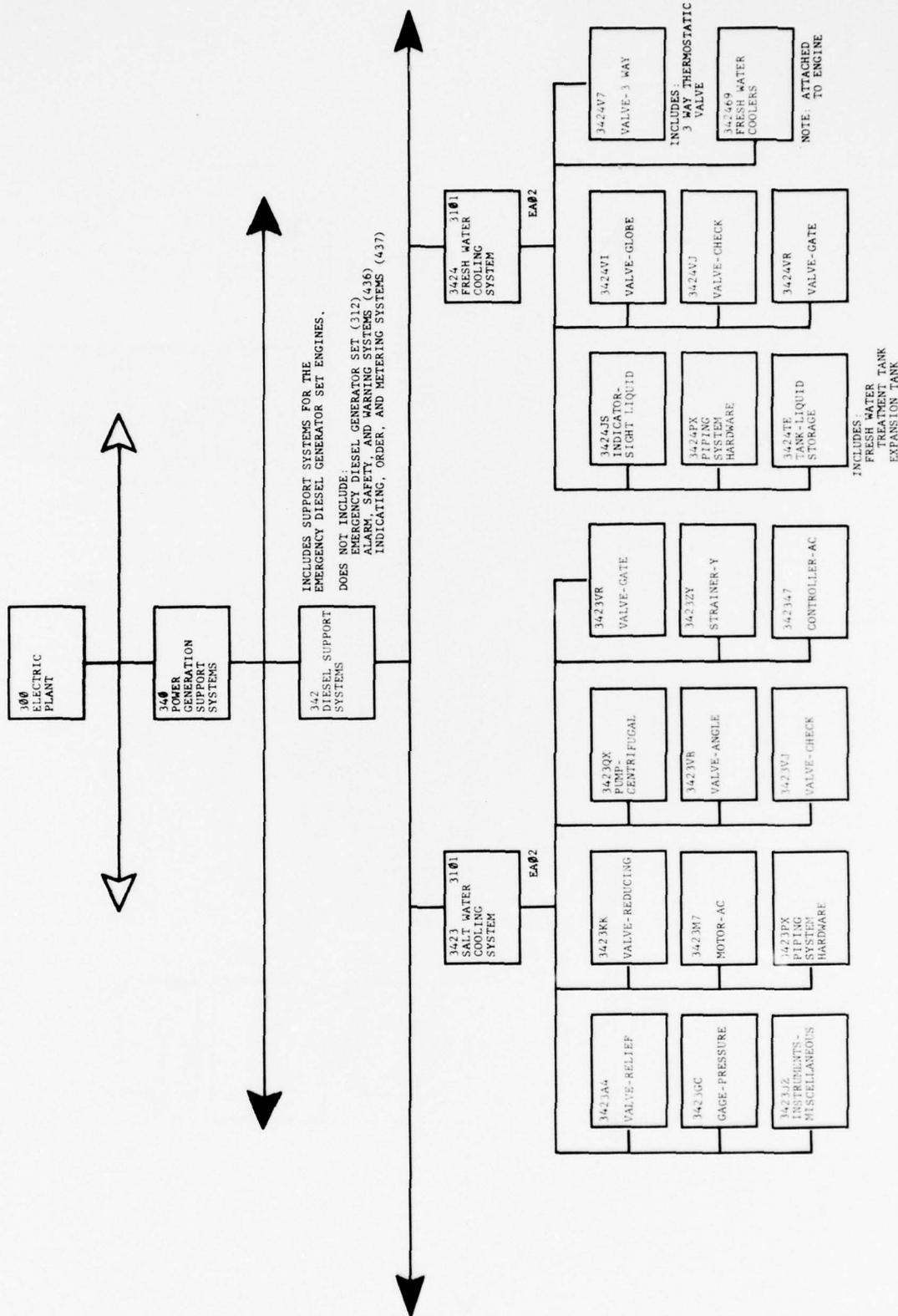
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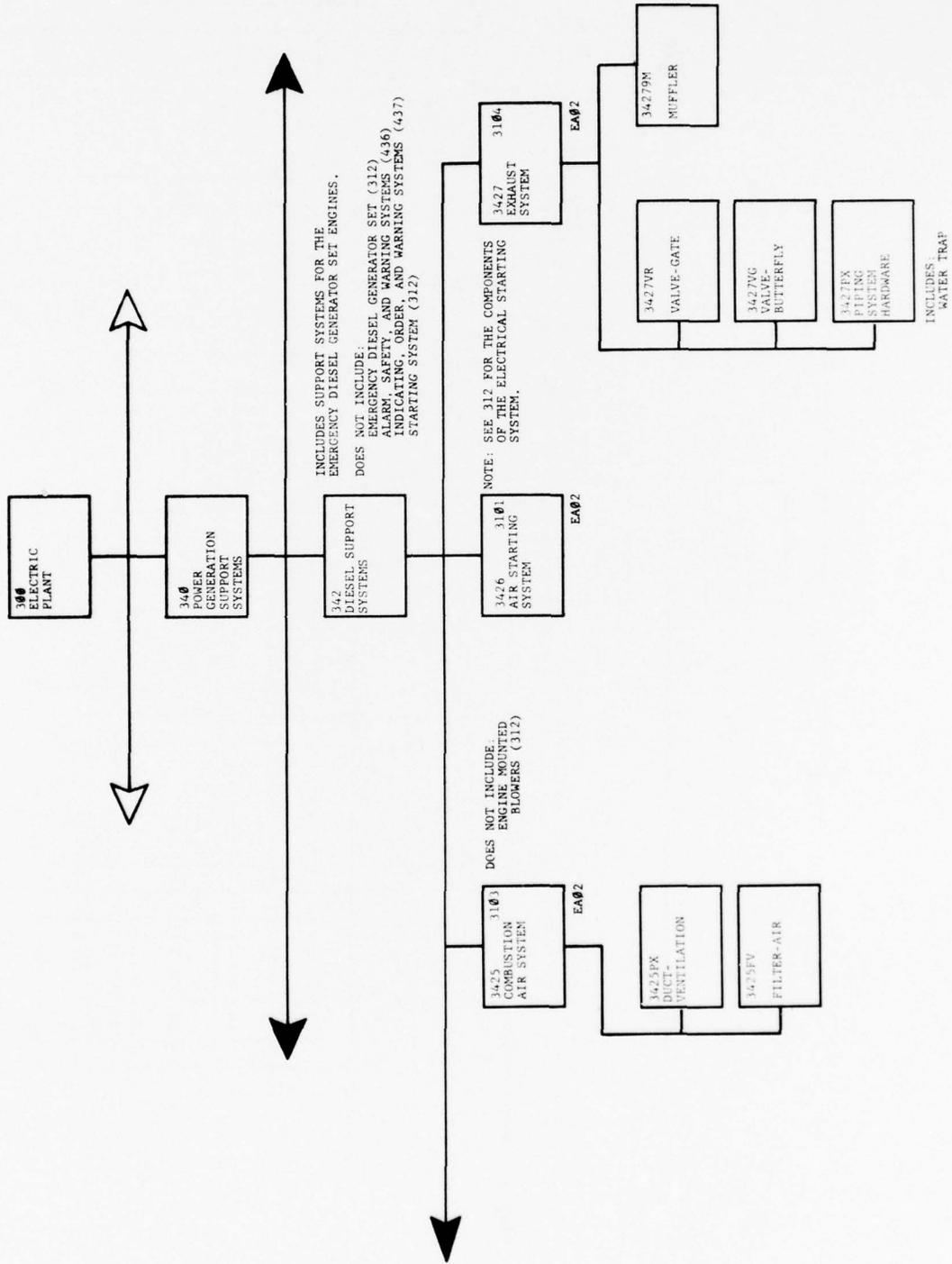
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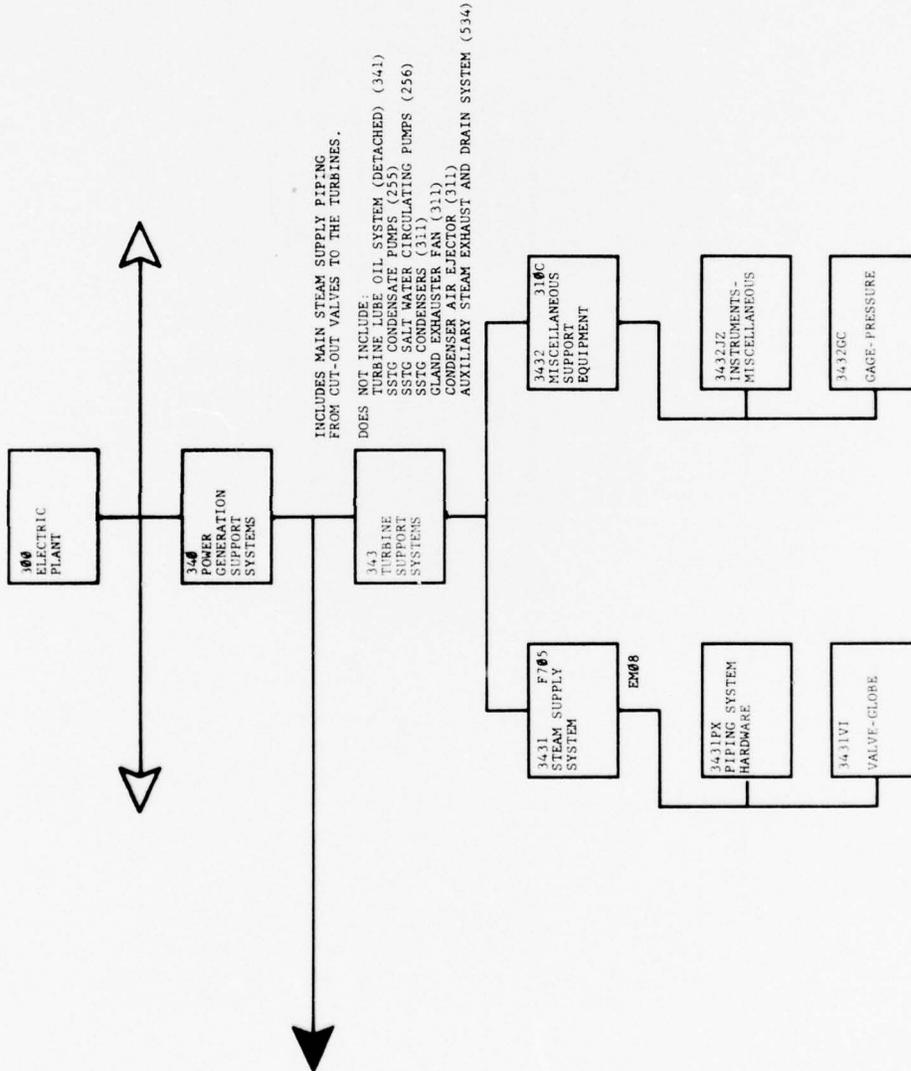


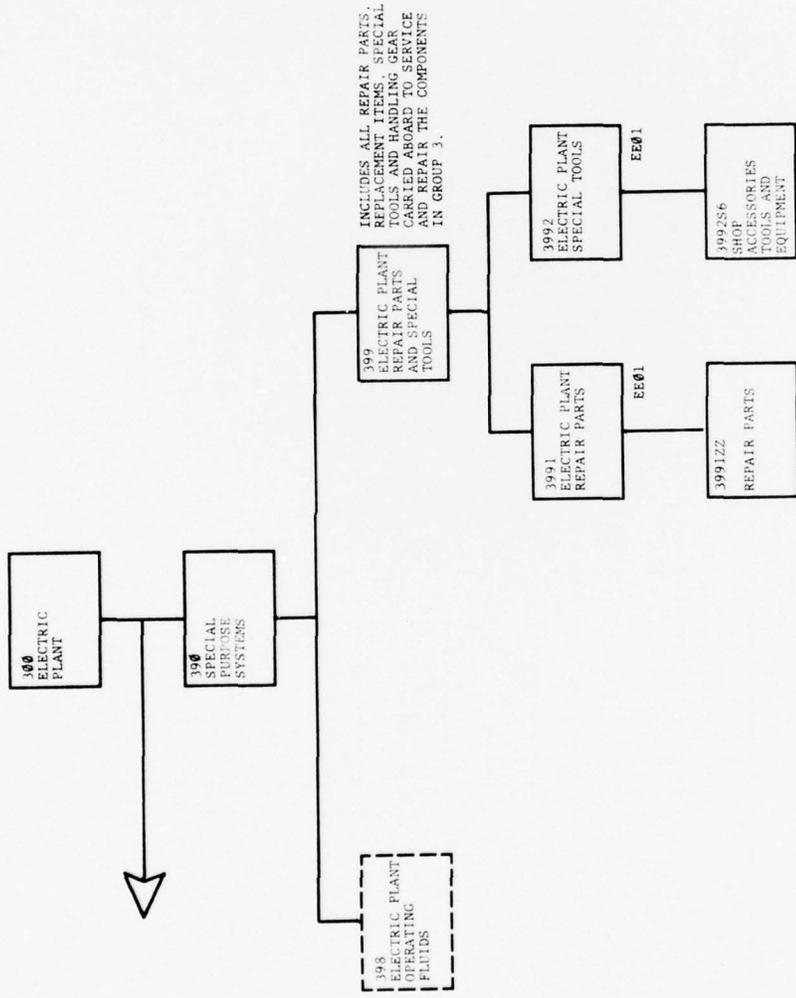


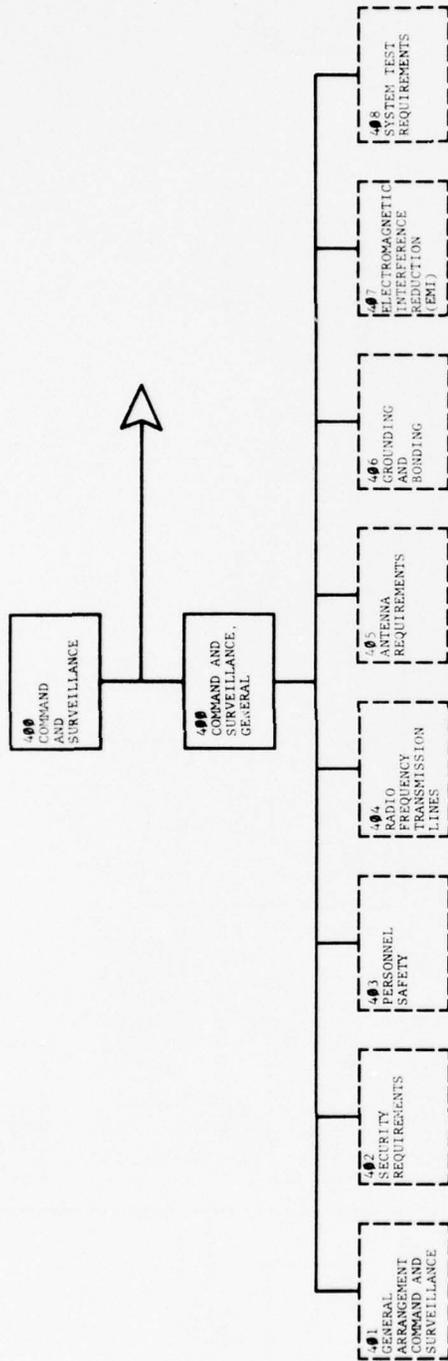


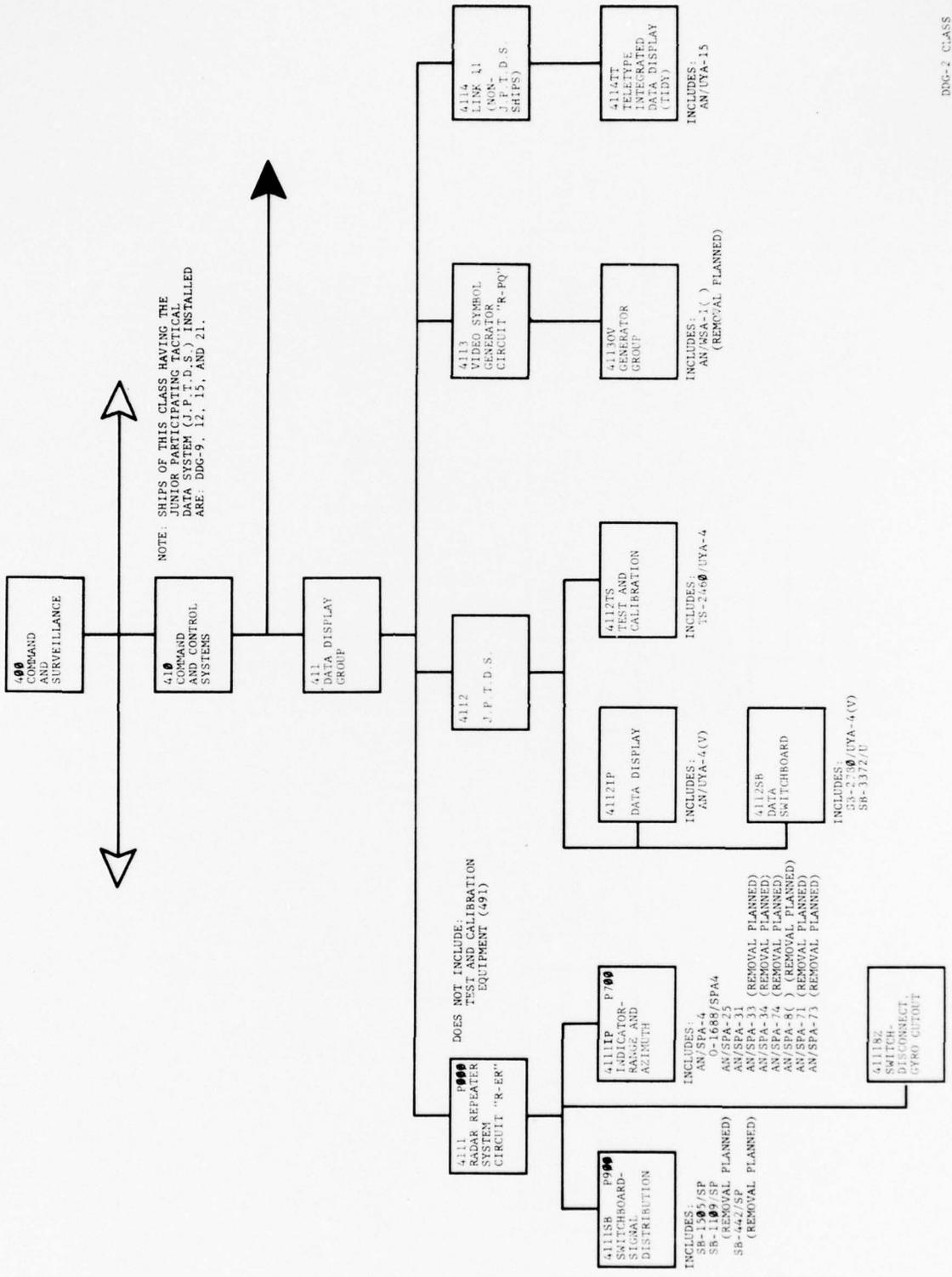


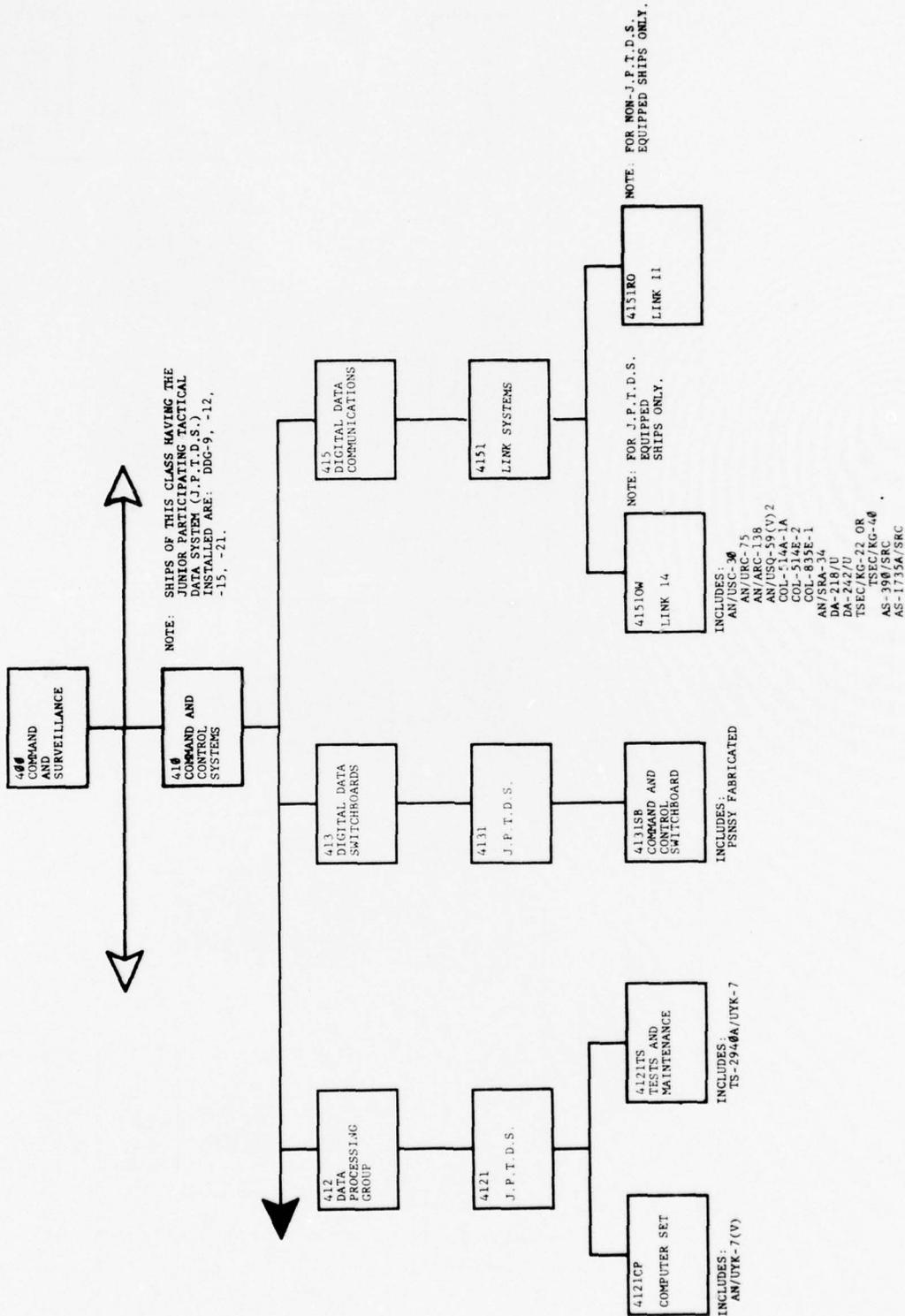


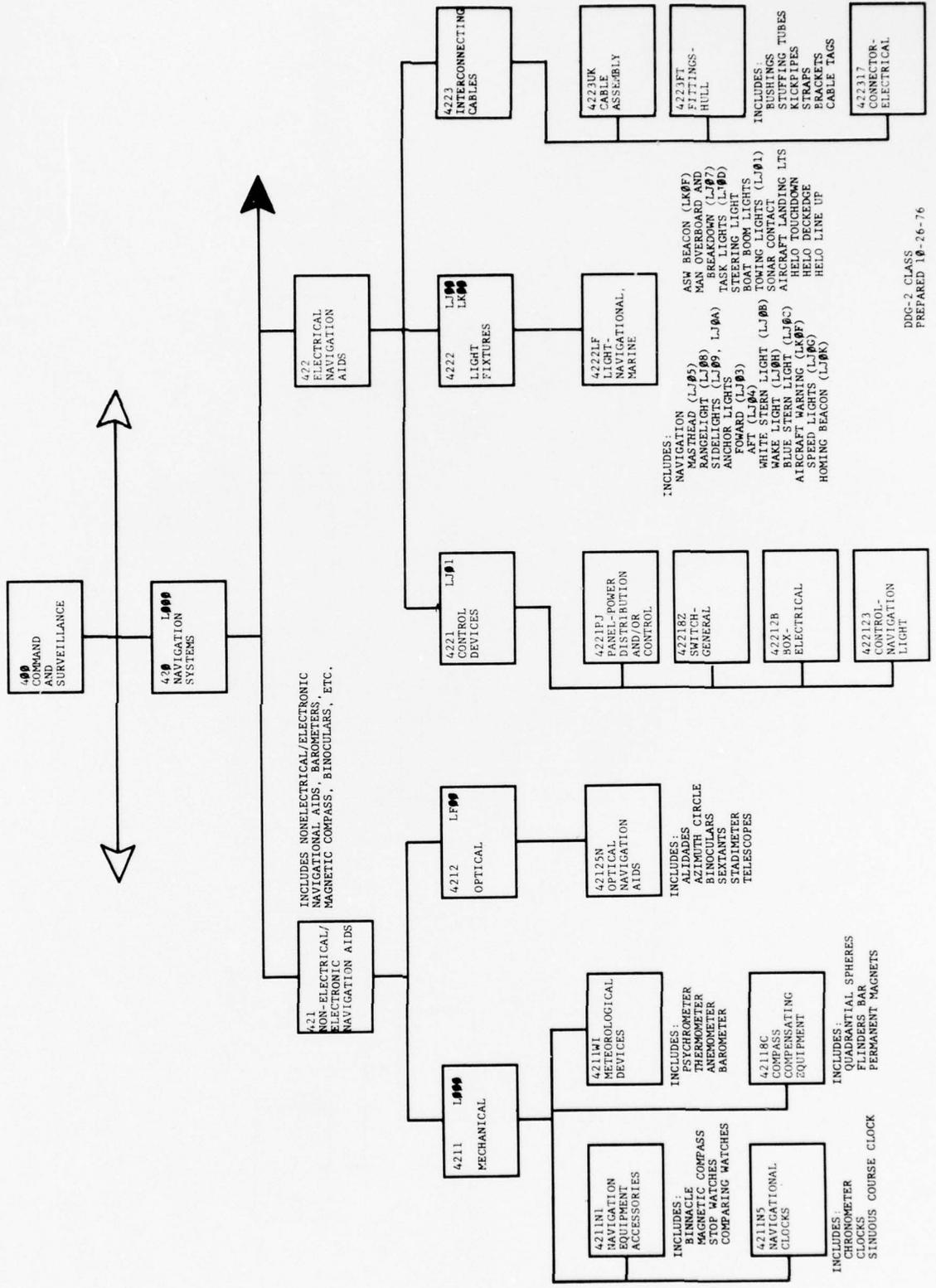




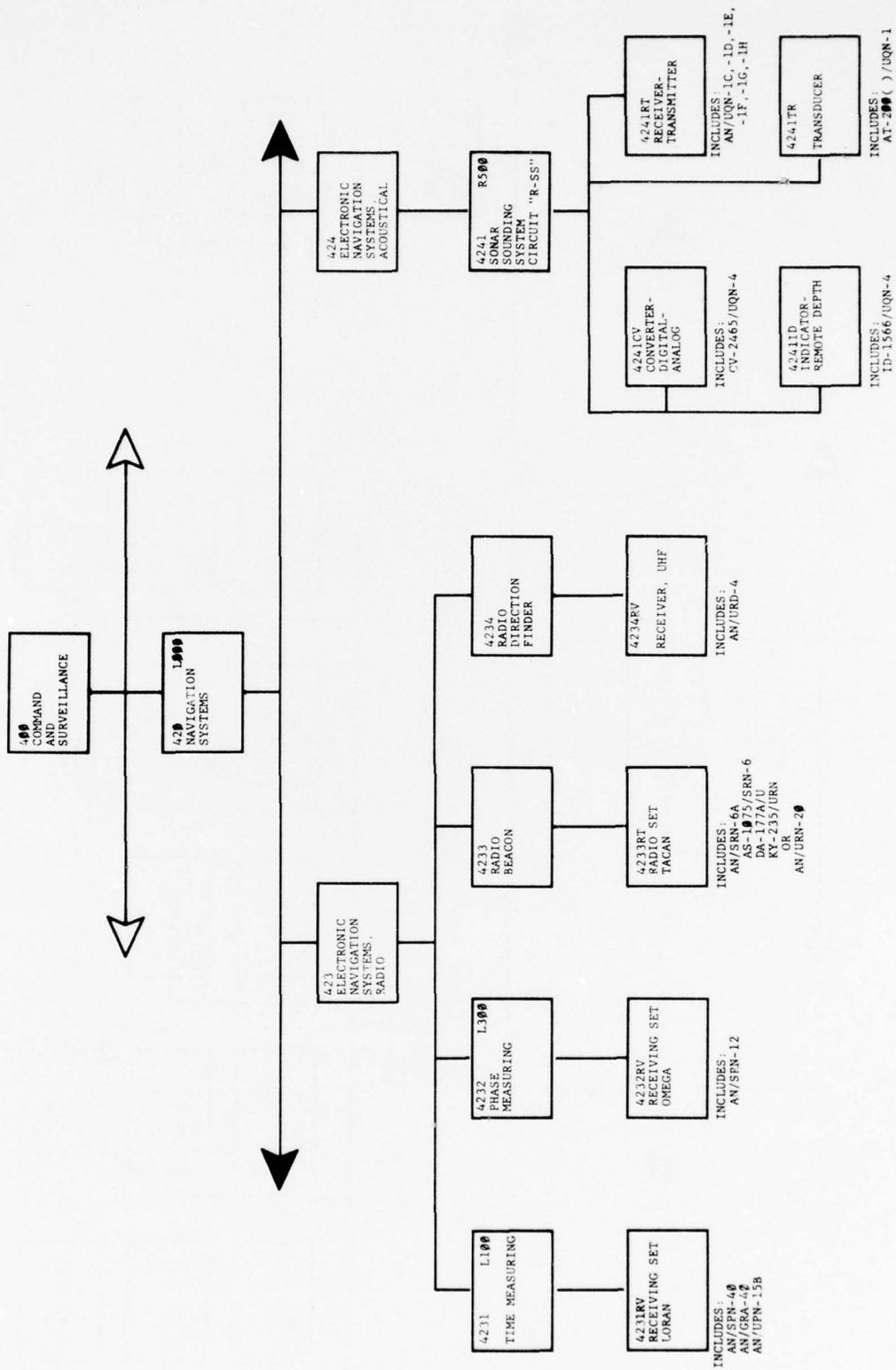


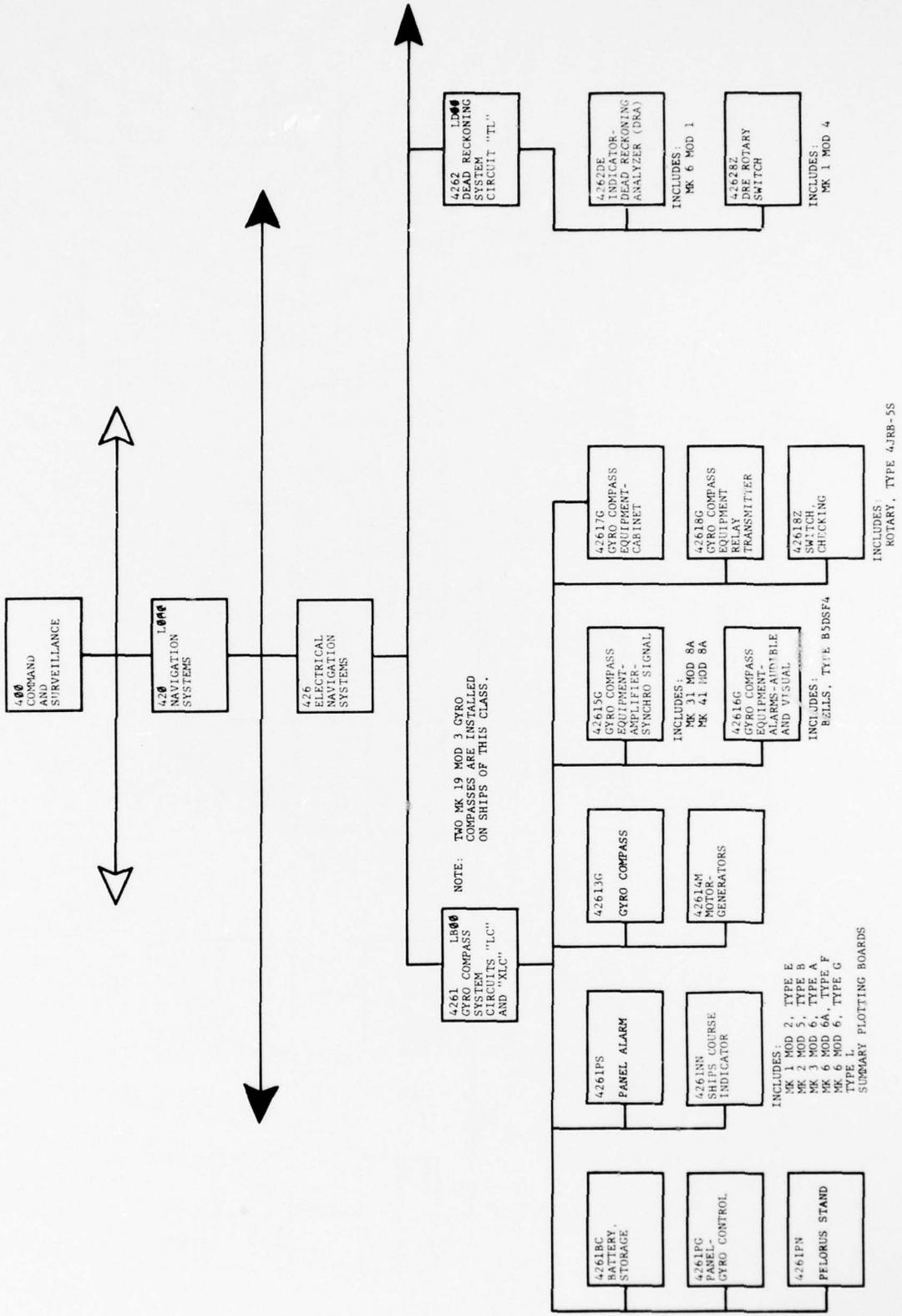


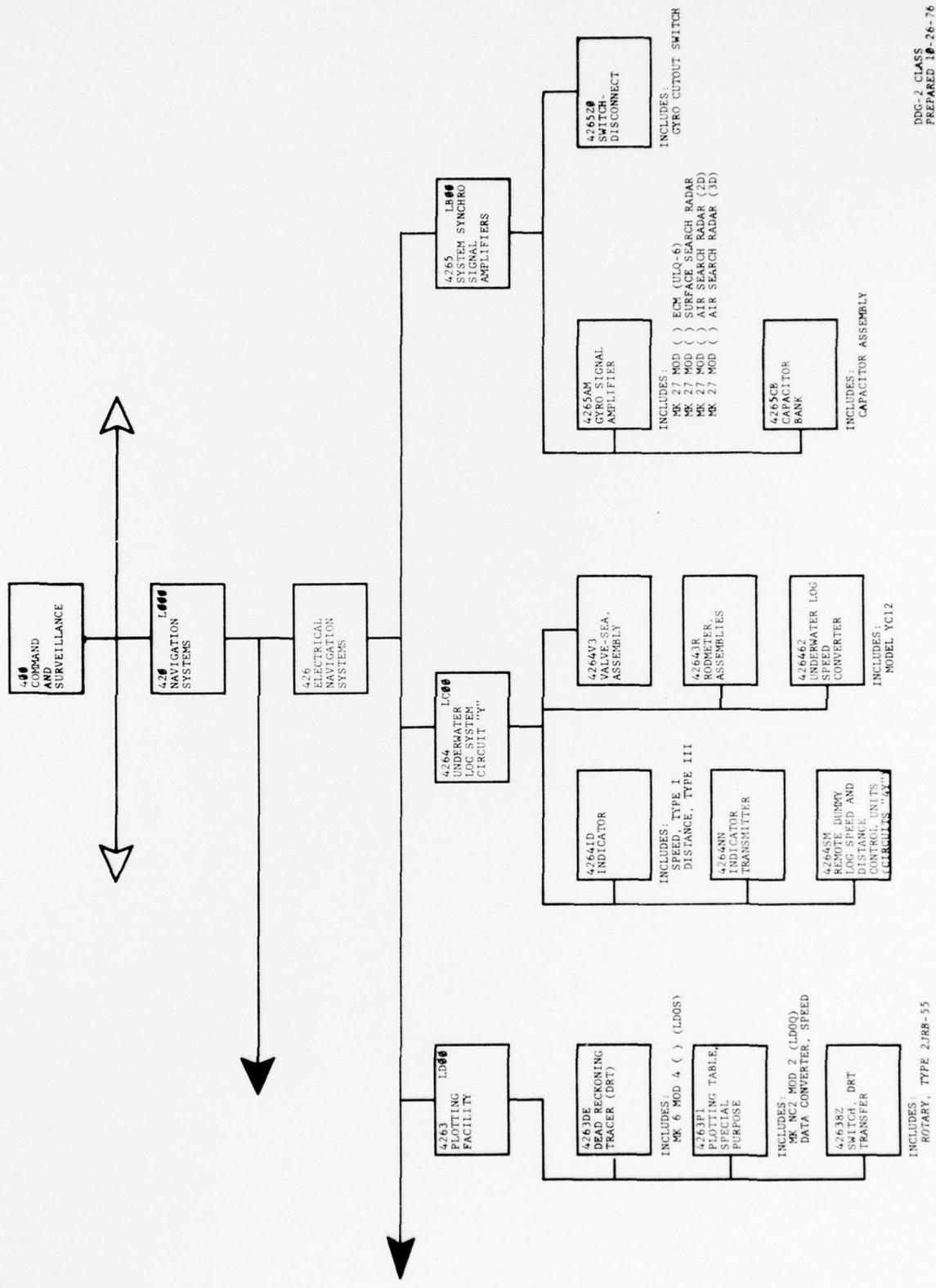


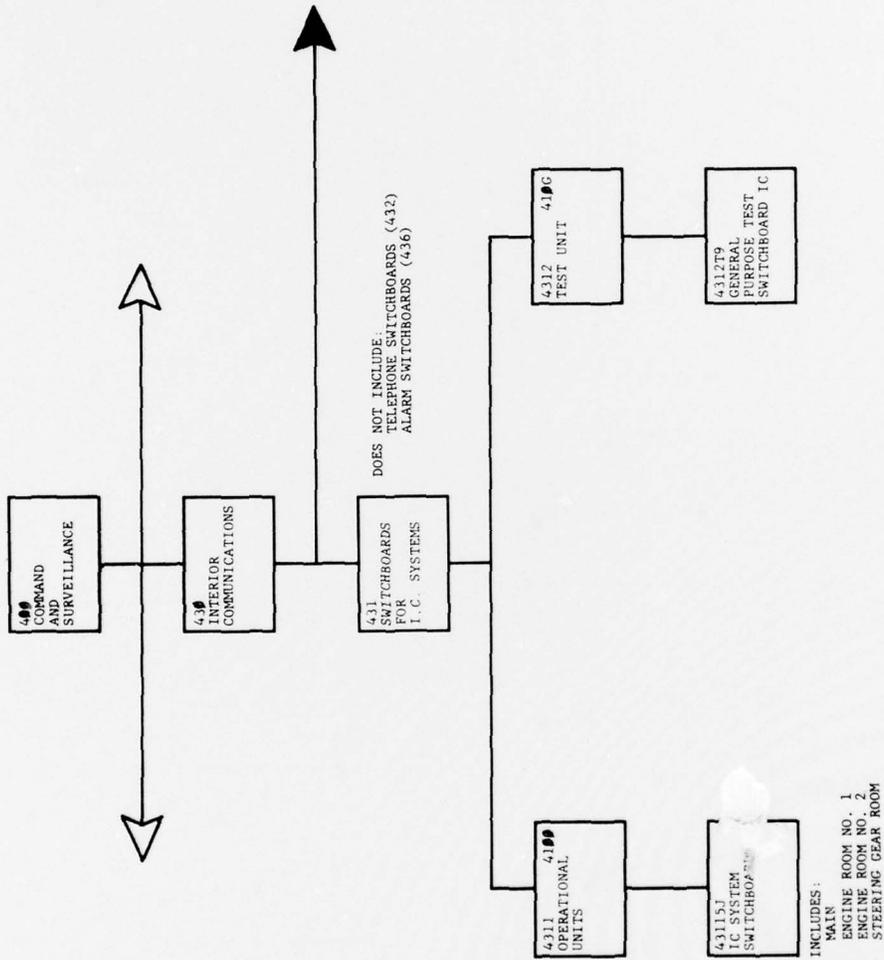


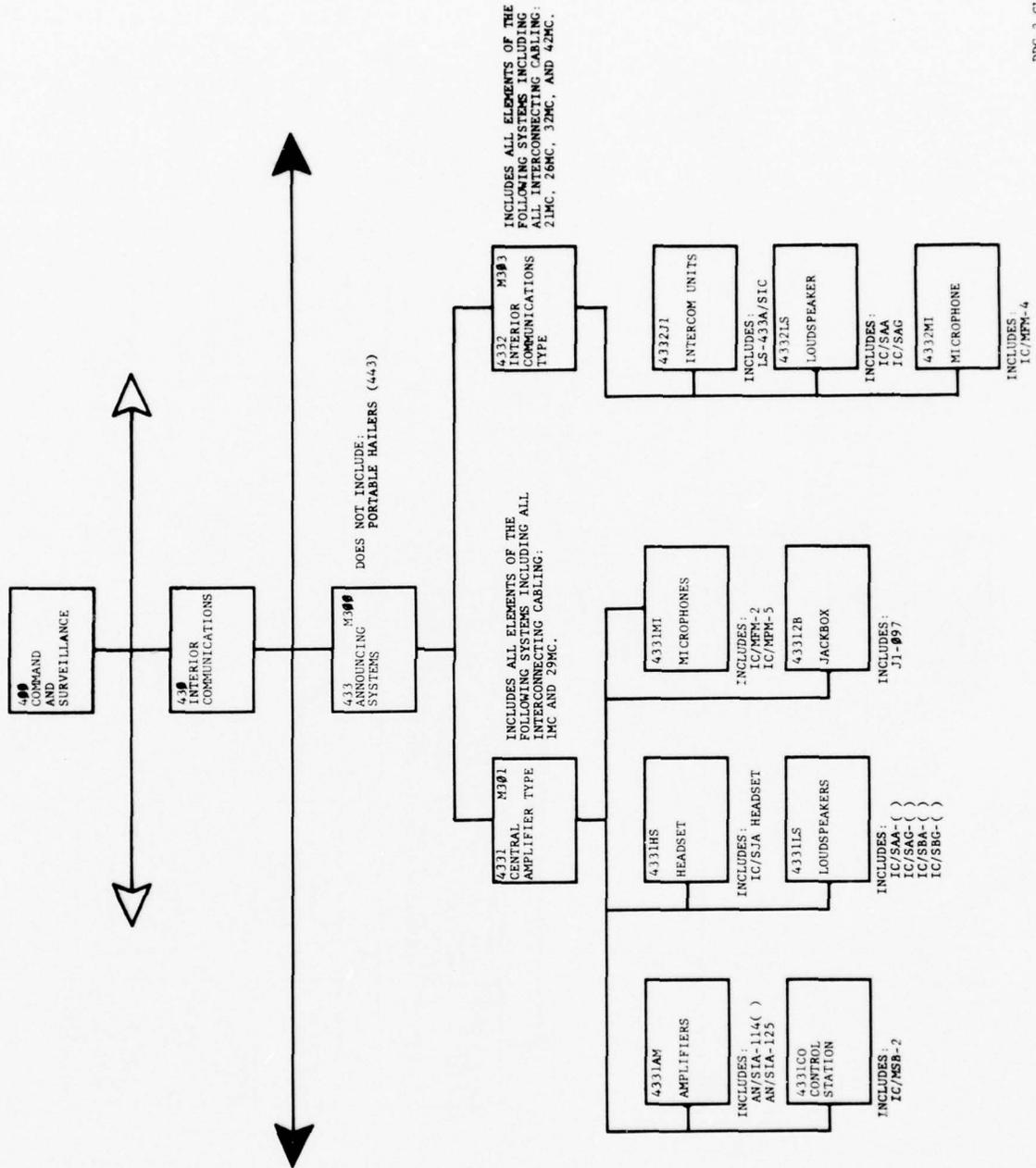
DDG-2 CLASS
PREPARED 10-26-76

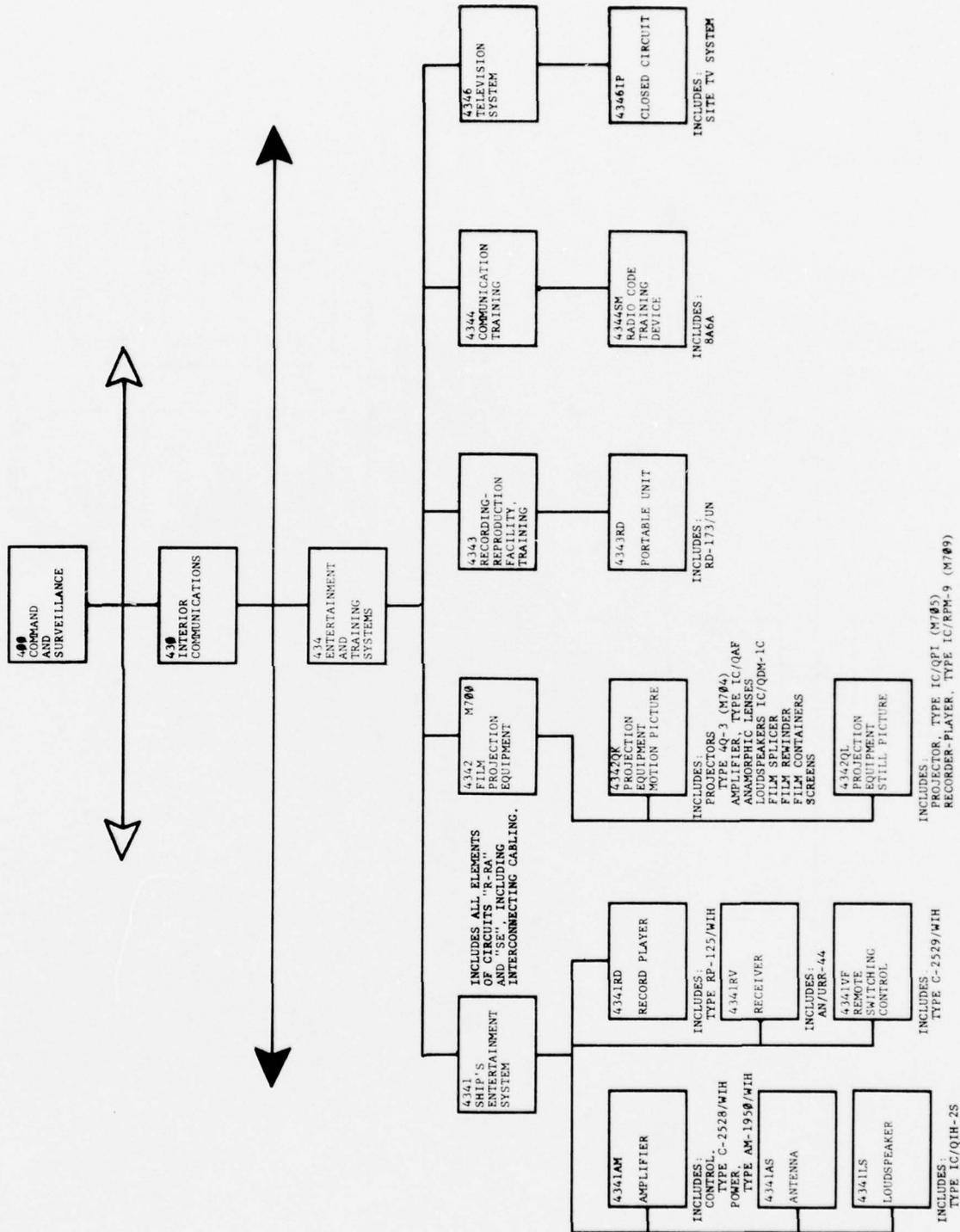


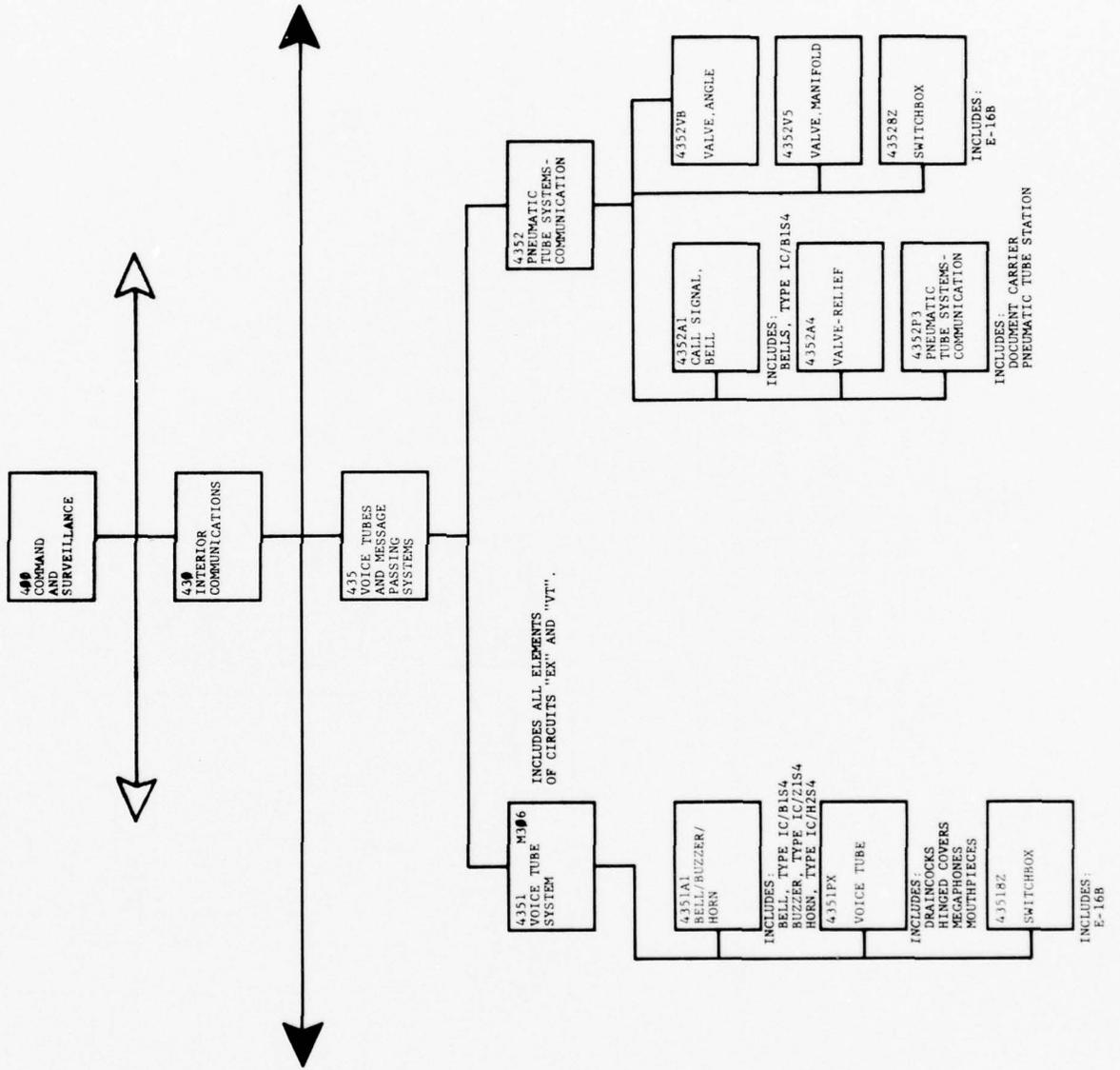


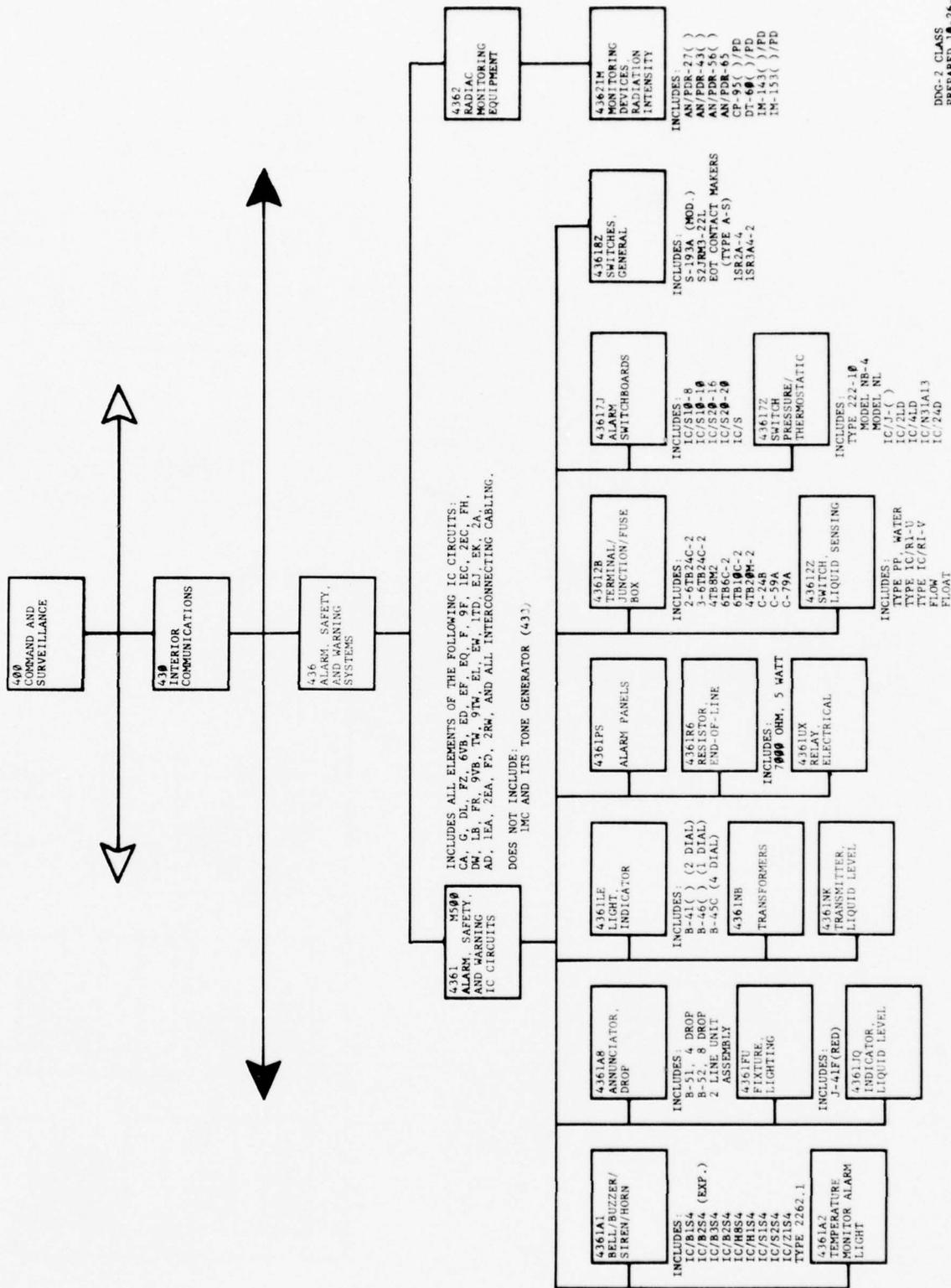


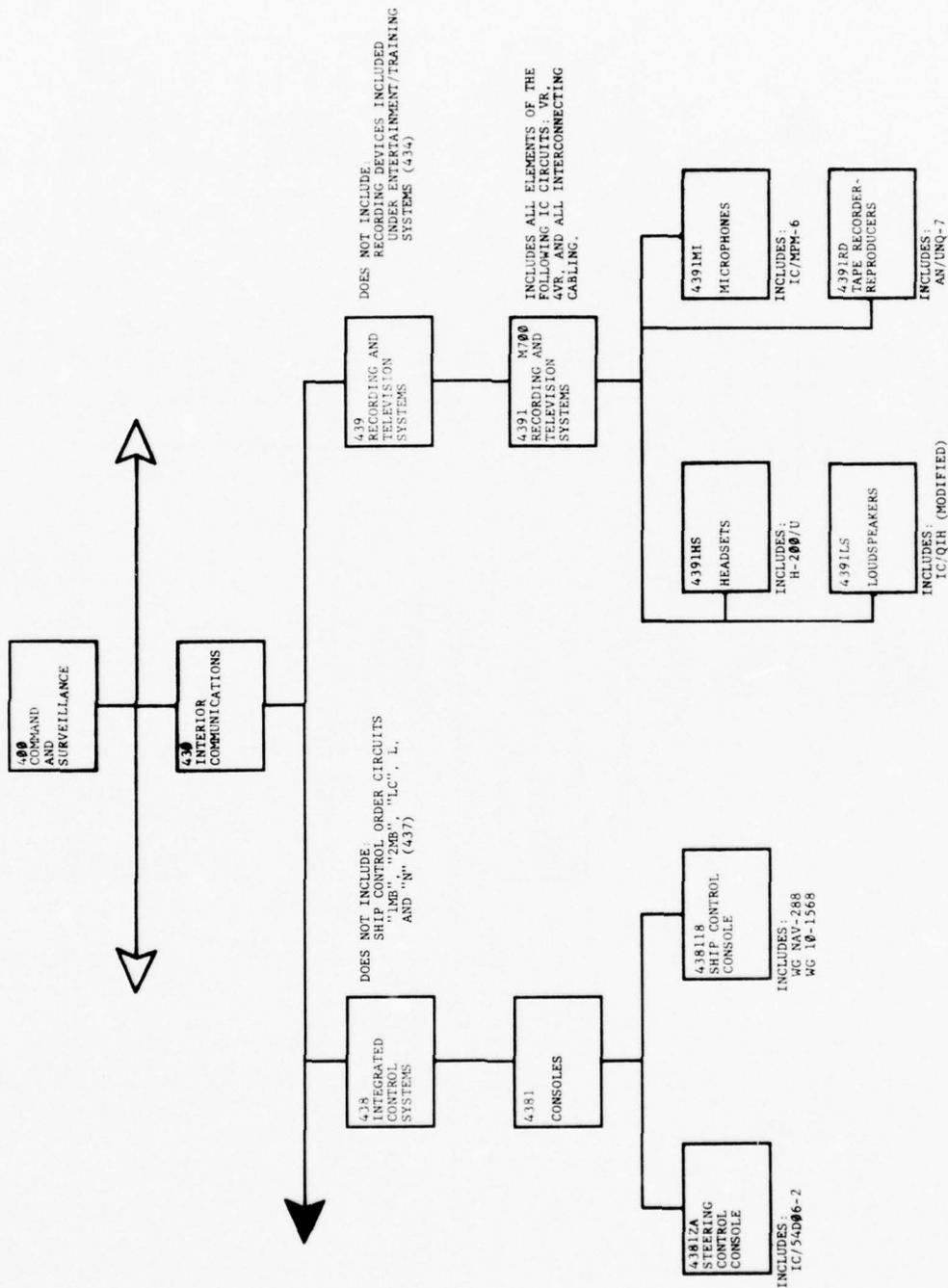


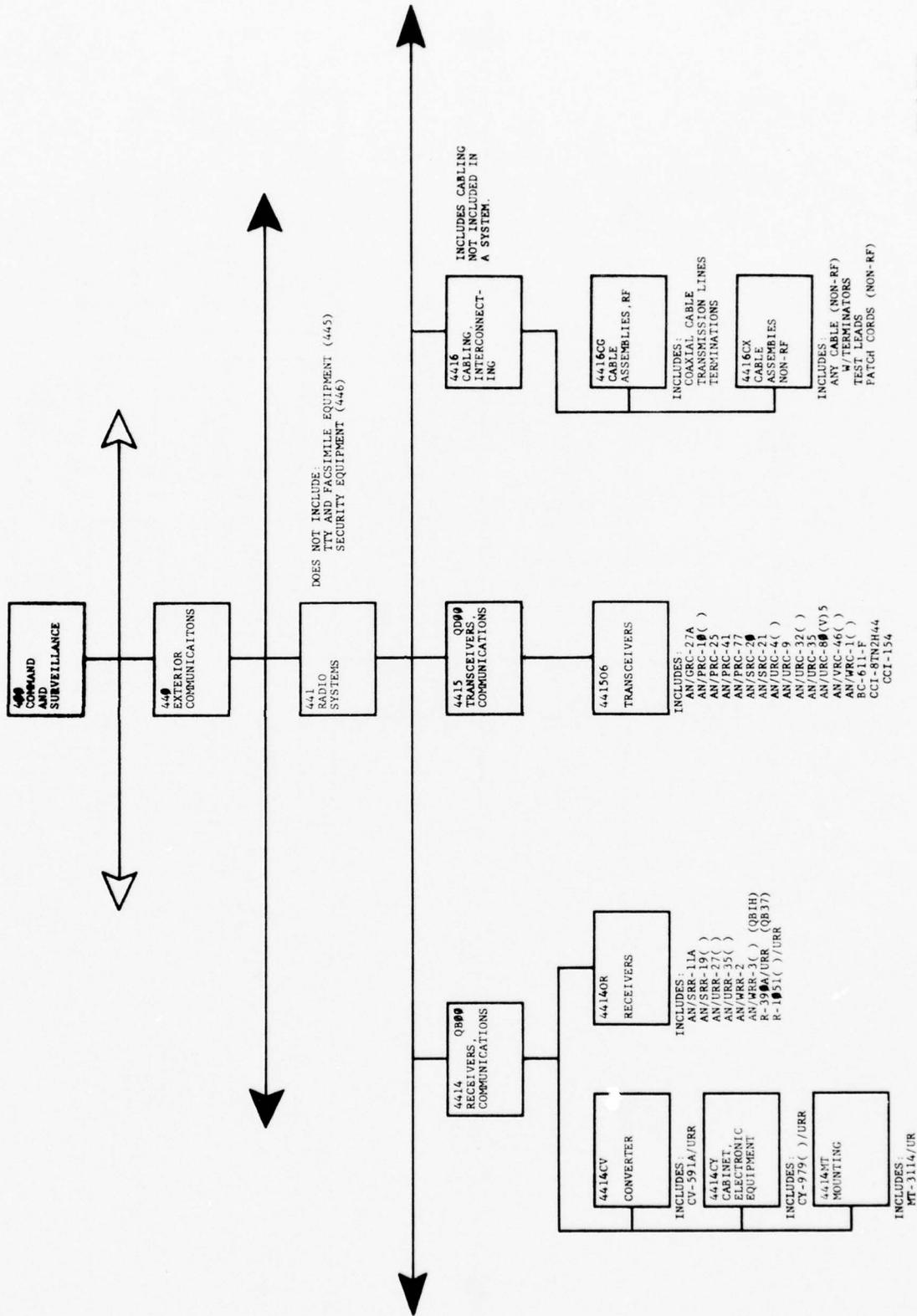


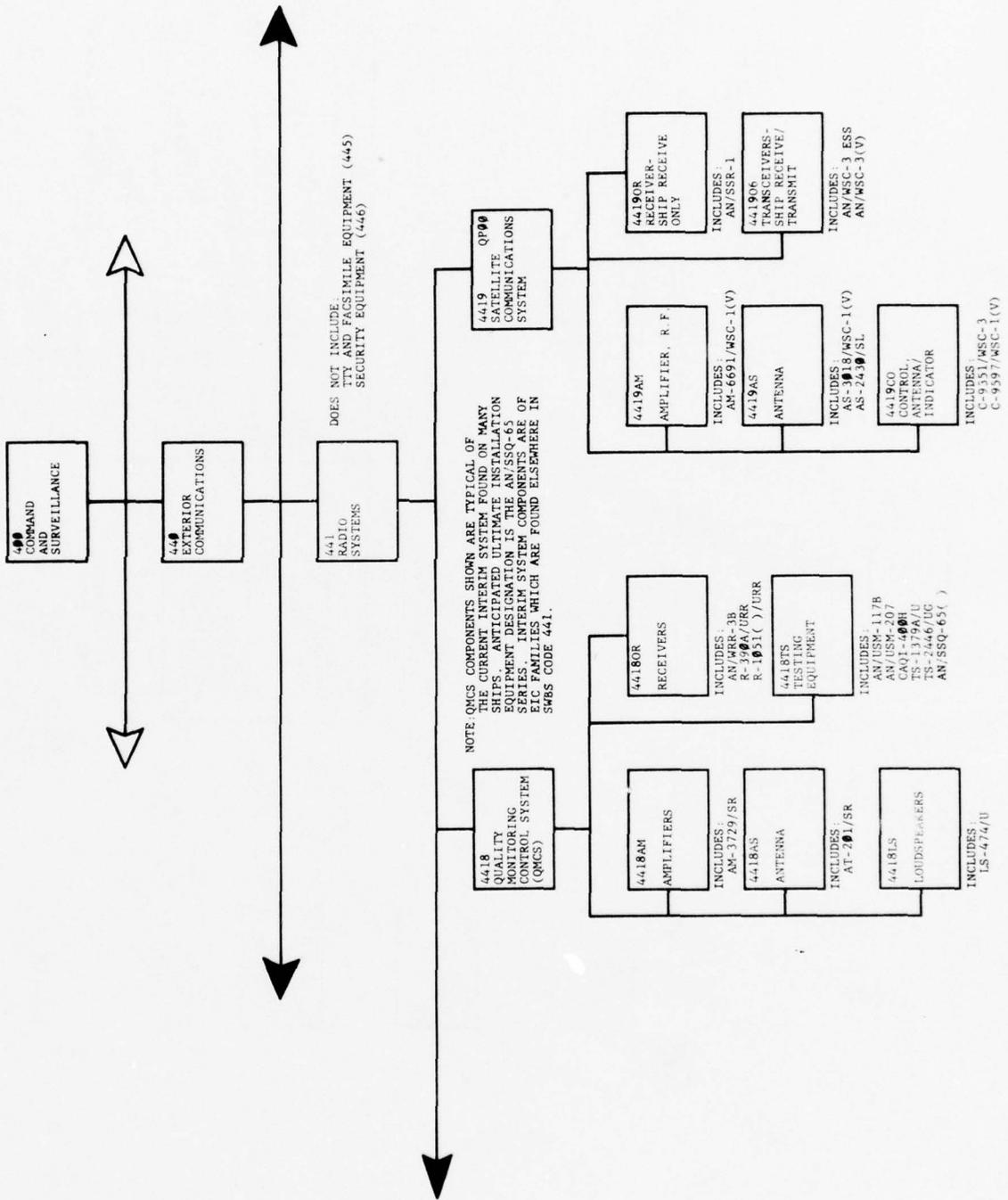


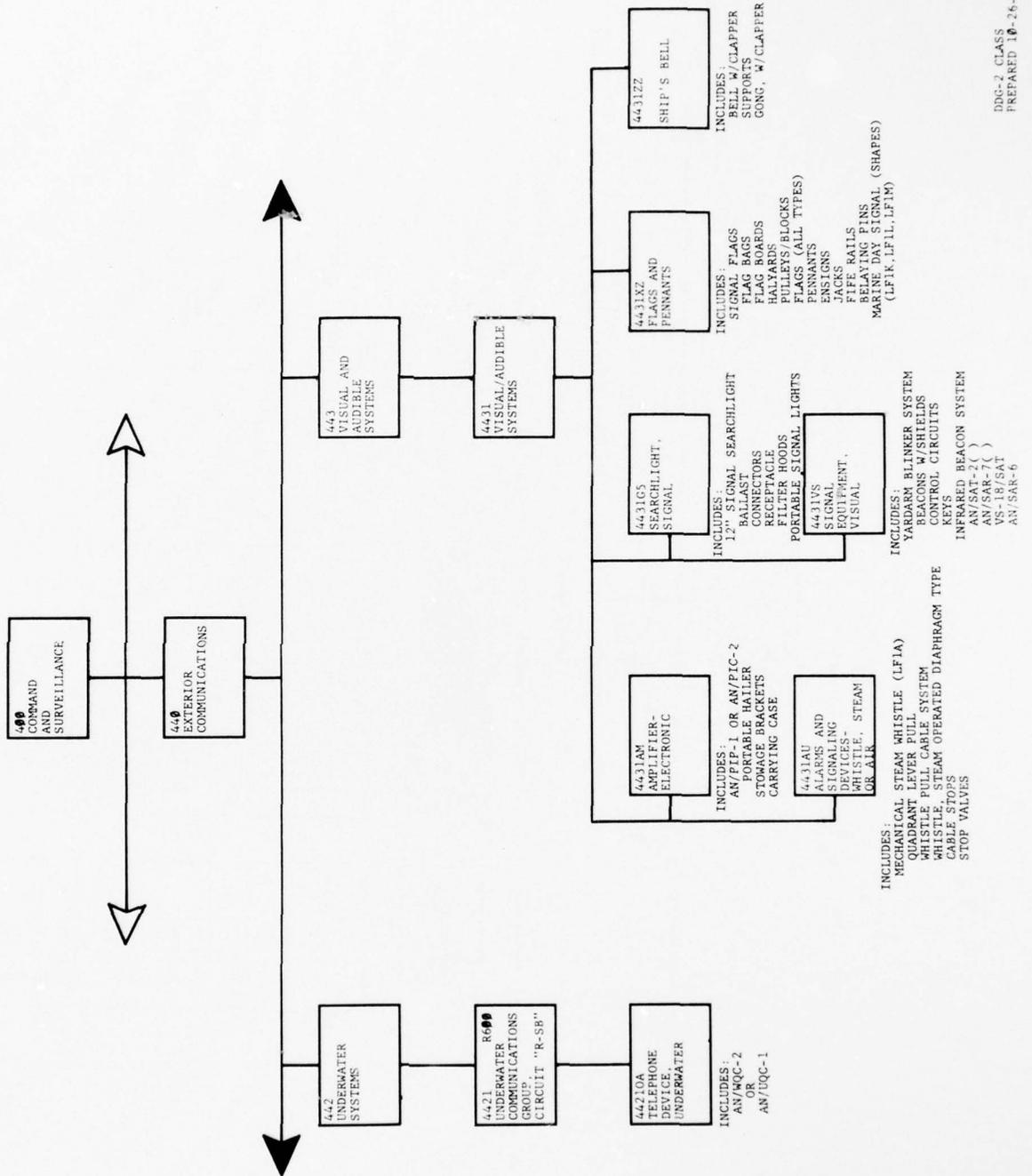


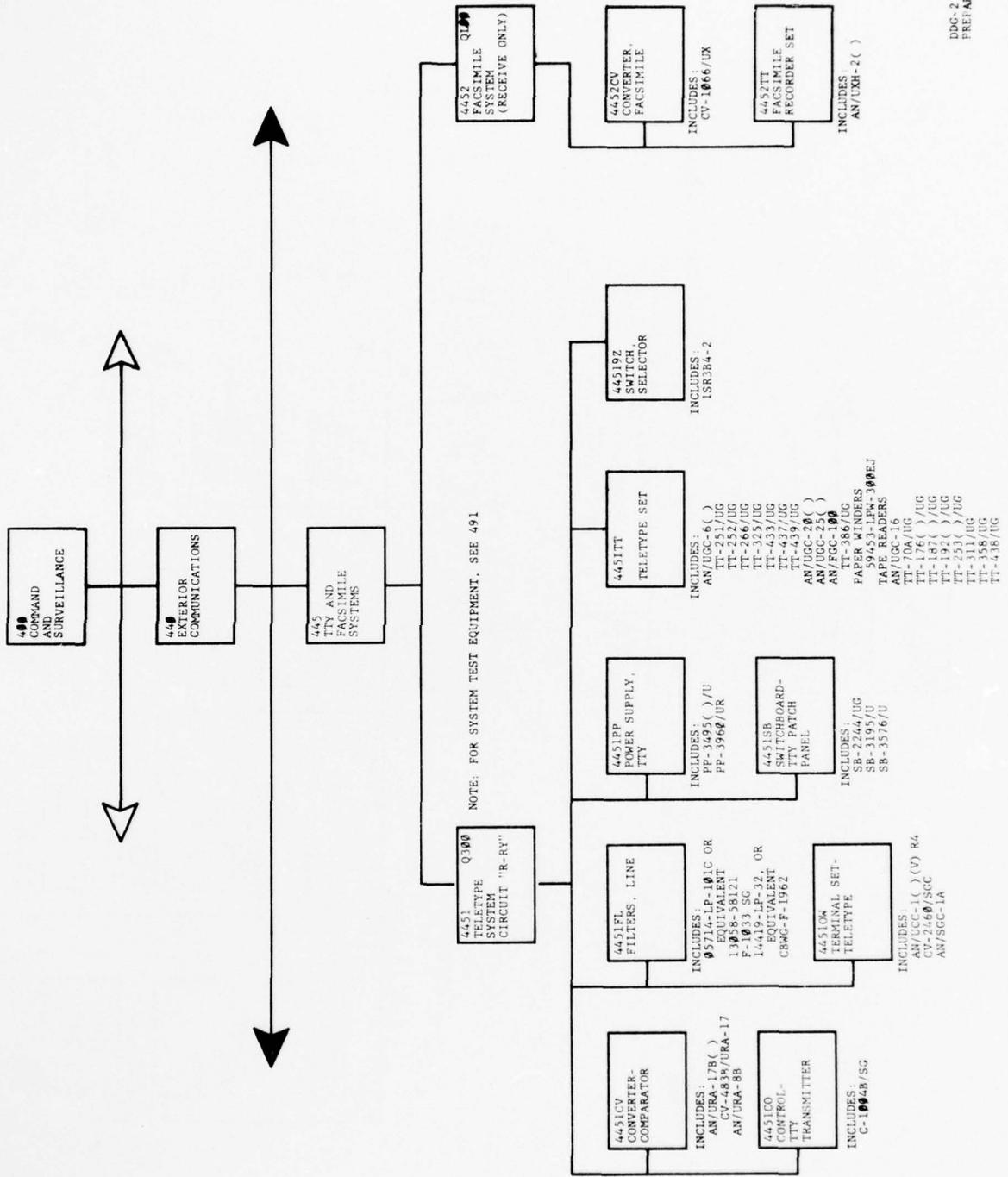


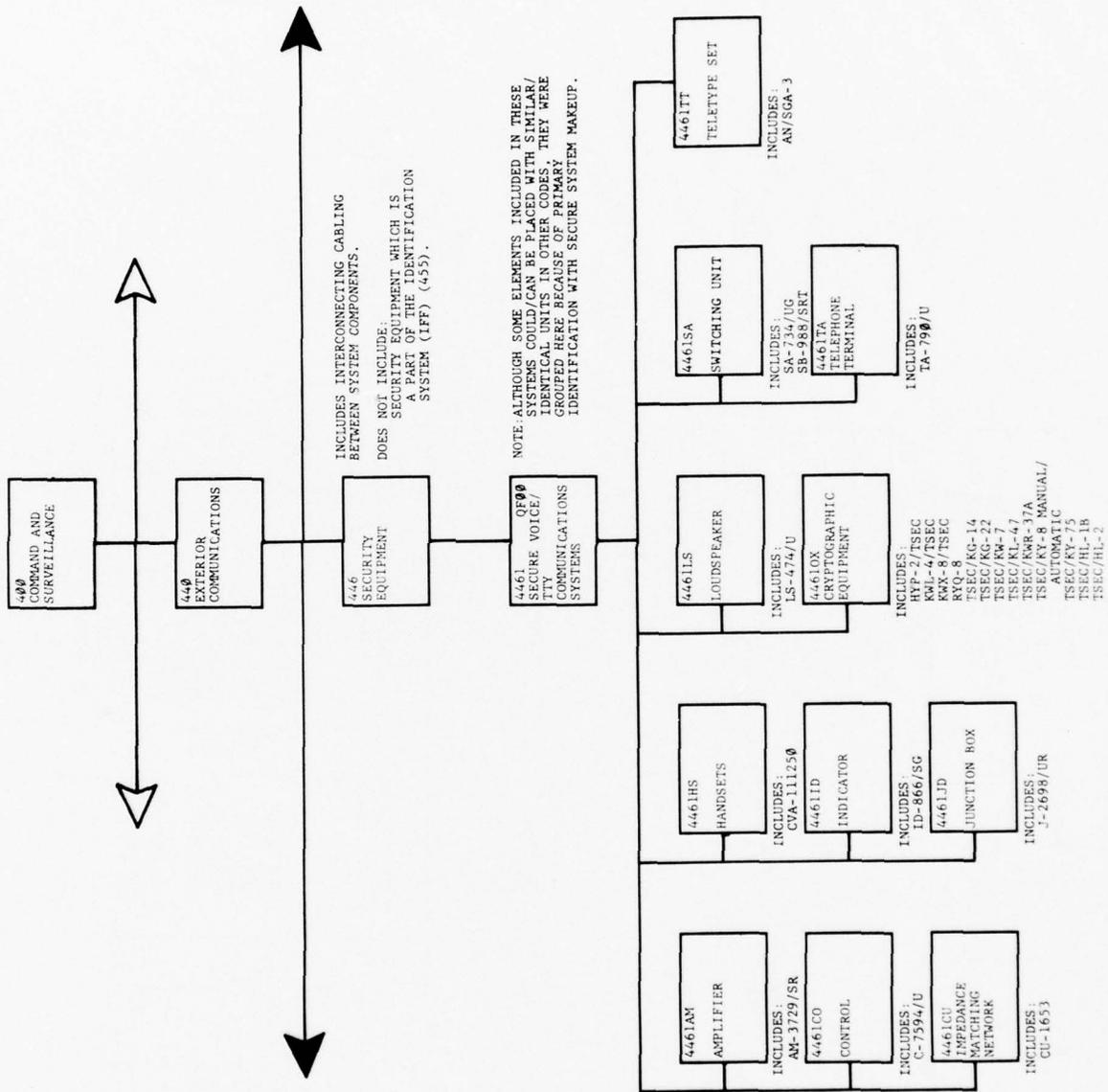


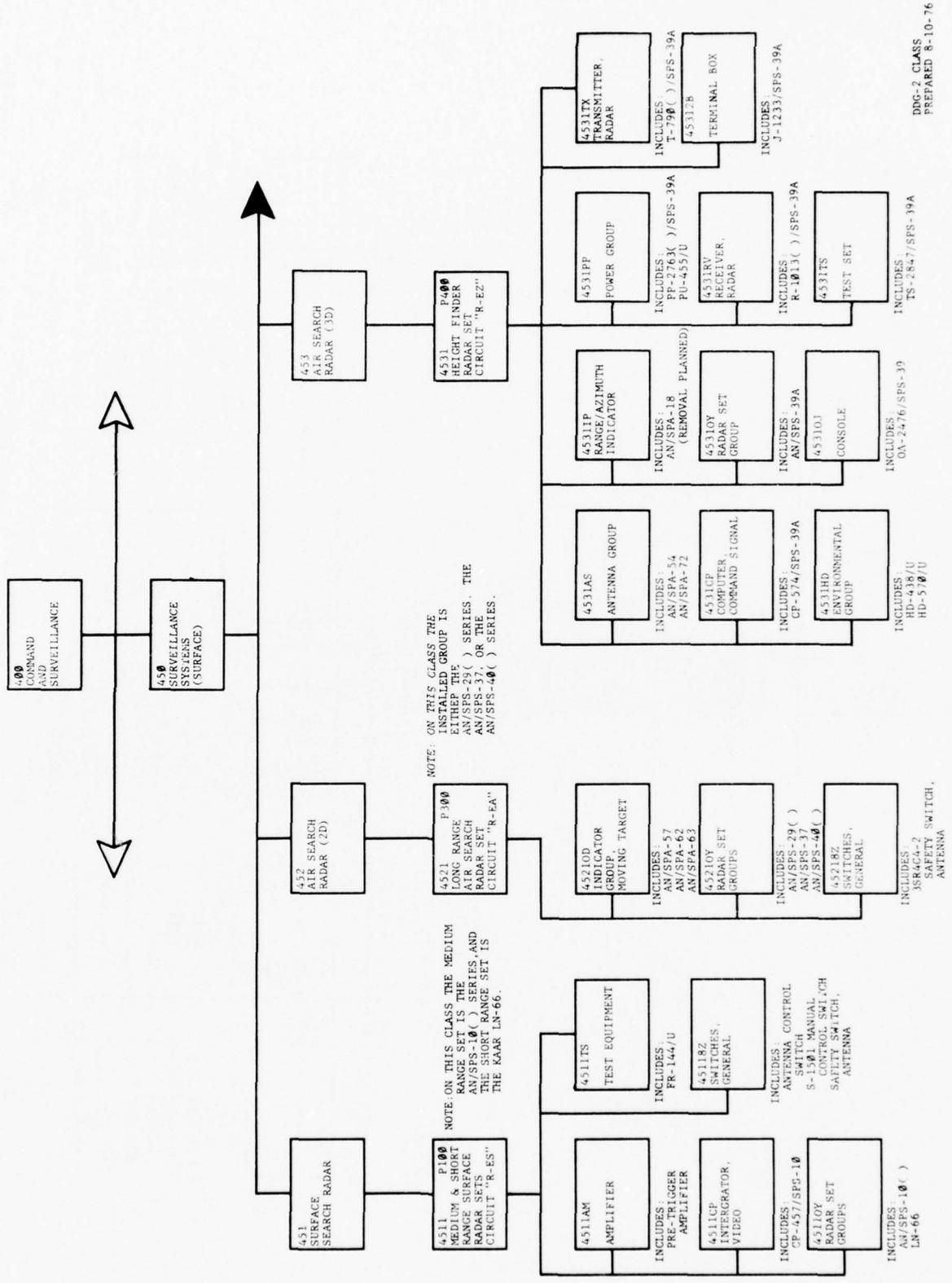






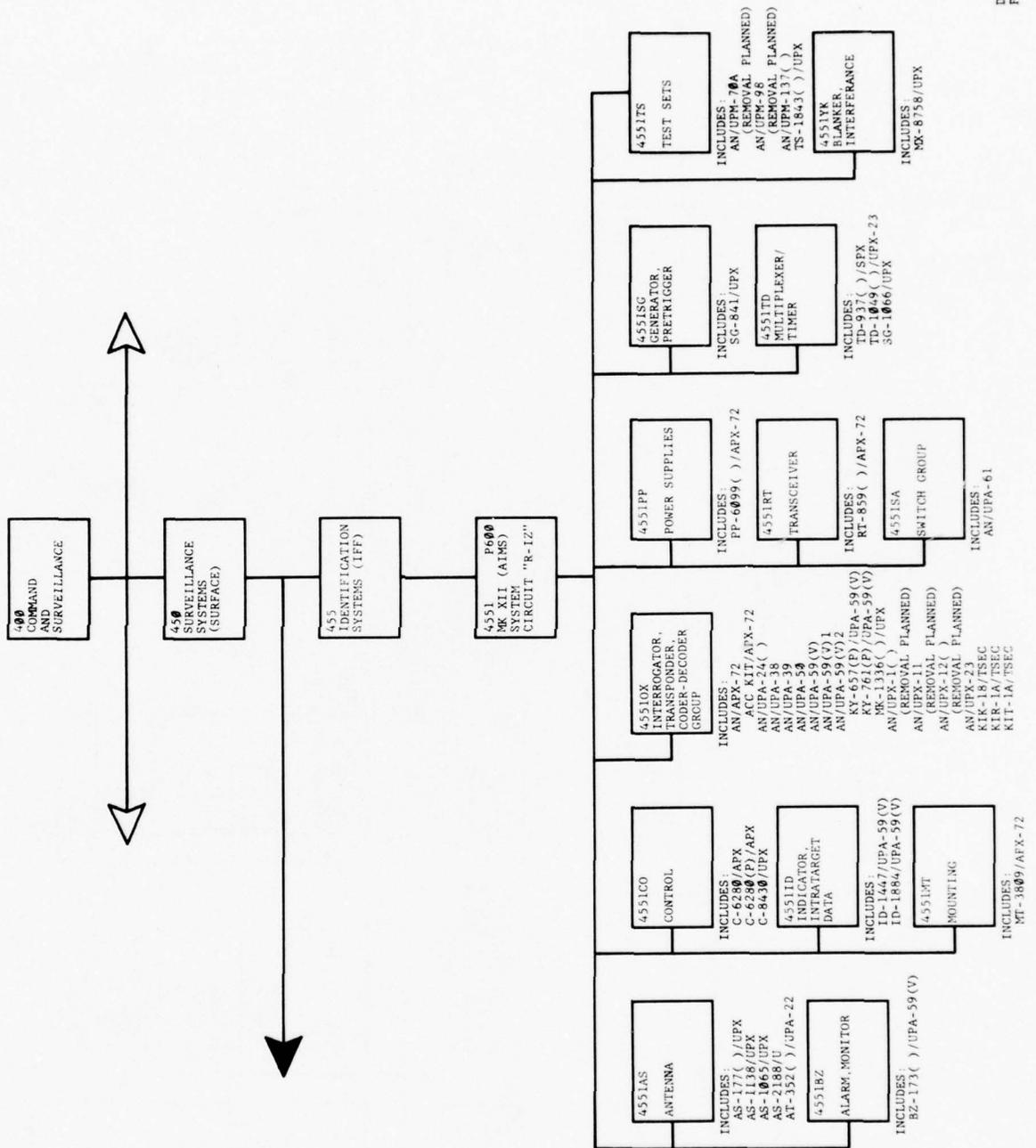


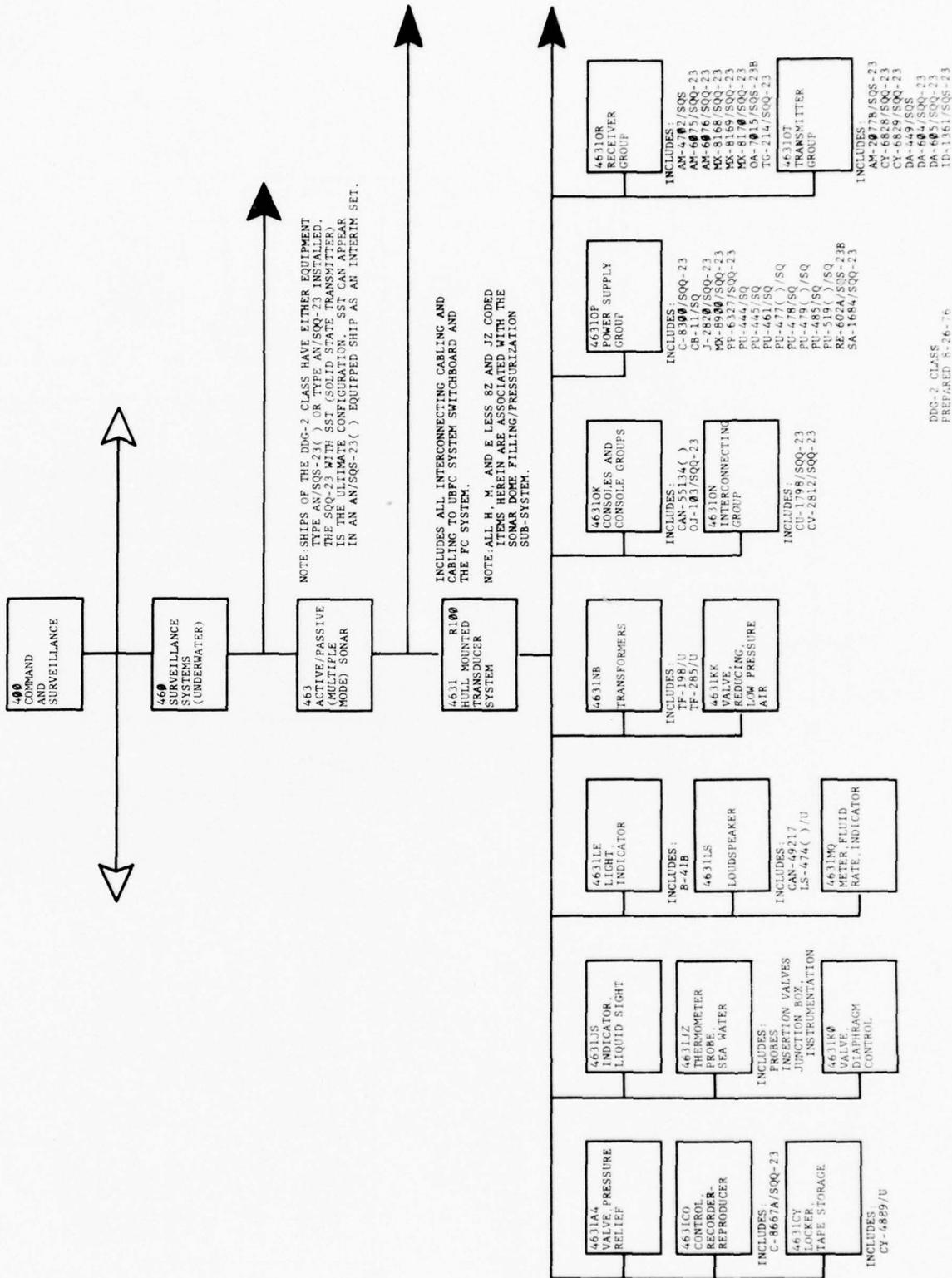


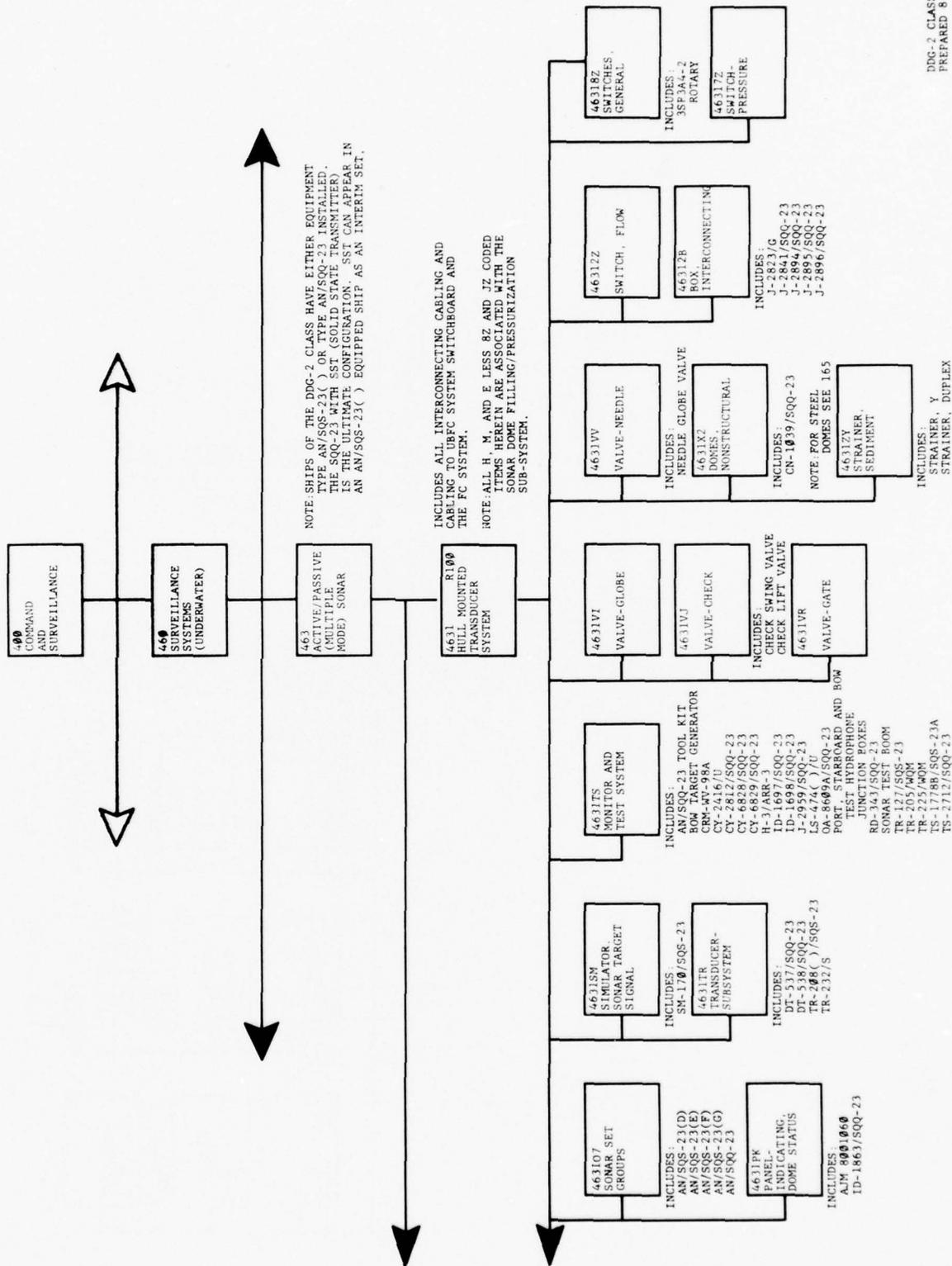


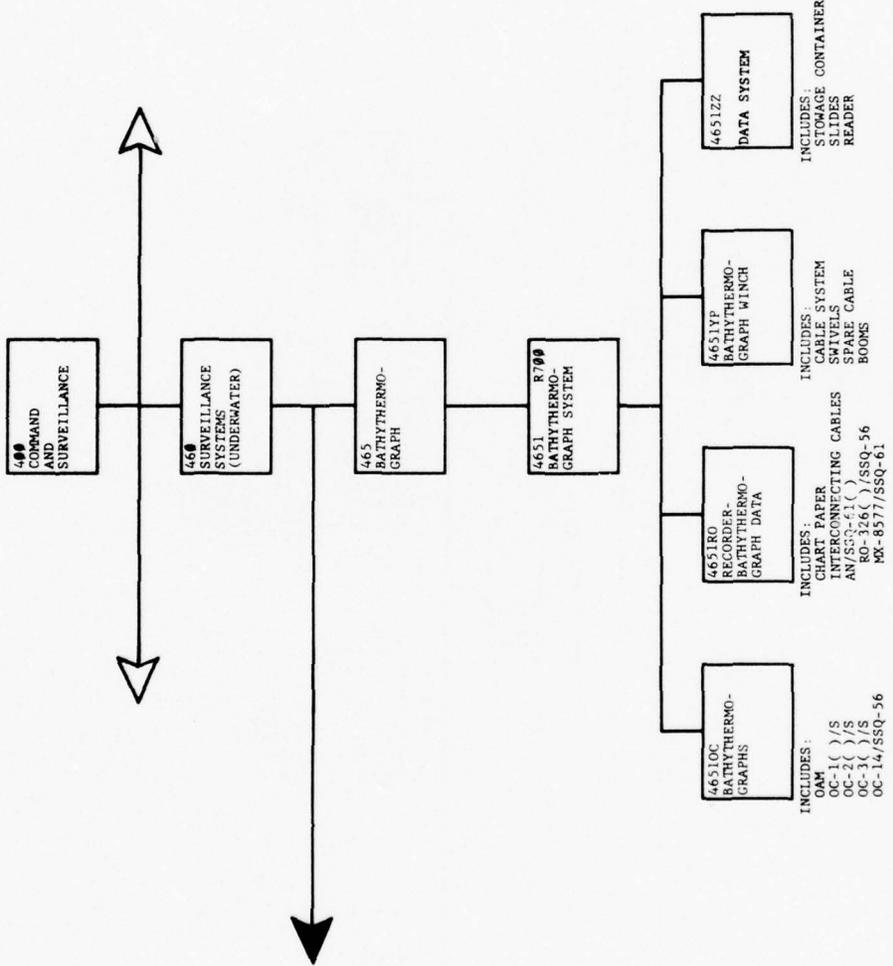
NOTE: ON THIS CLASS THE INSTALLER GROUP IS EITHER THE AN/SPS-29 () SERIES, THE AN/SPS-37 () OR THE AN/SPS-40 () SERIES.

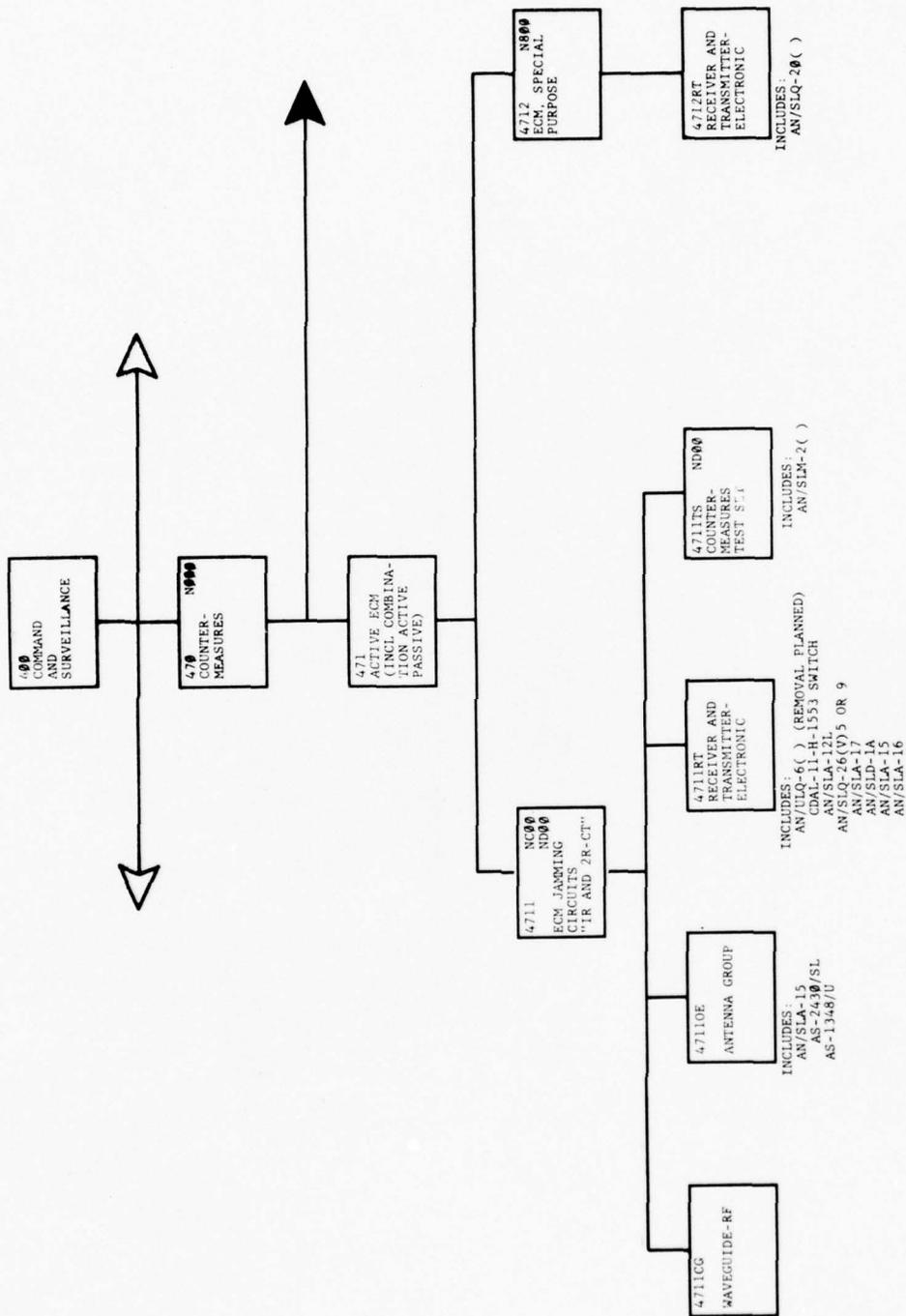
NOTE: ON THIS CLASS THE MEDIUM RANGE SET IS THE AN/SPS-10 () SERIES AND THE SHORT RANGE SET IS THE KAAR LN-66.

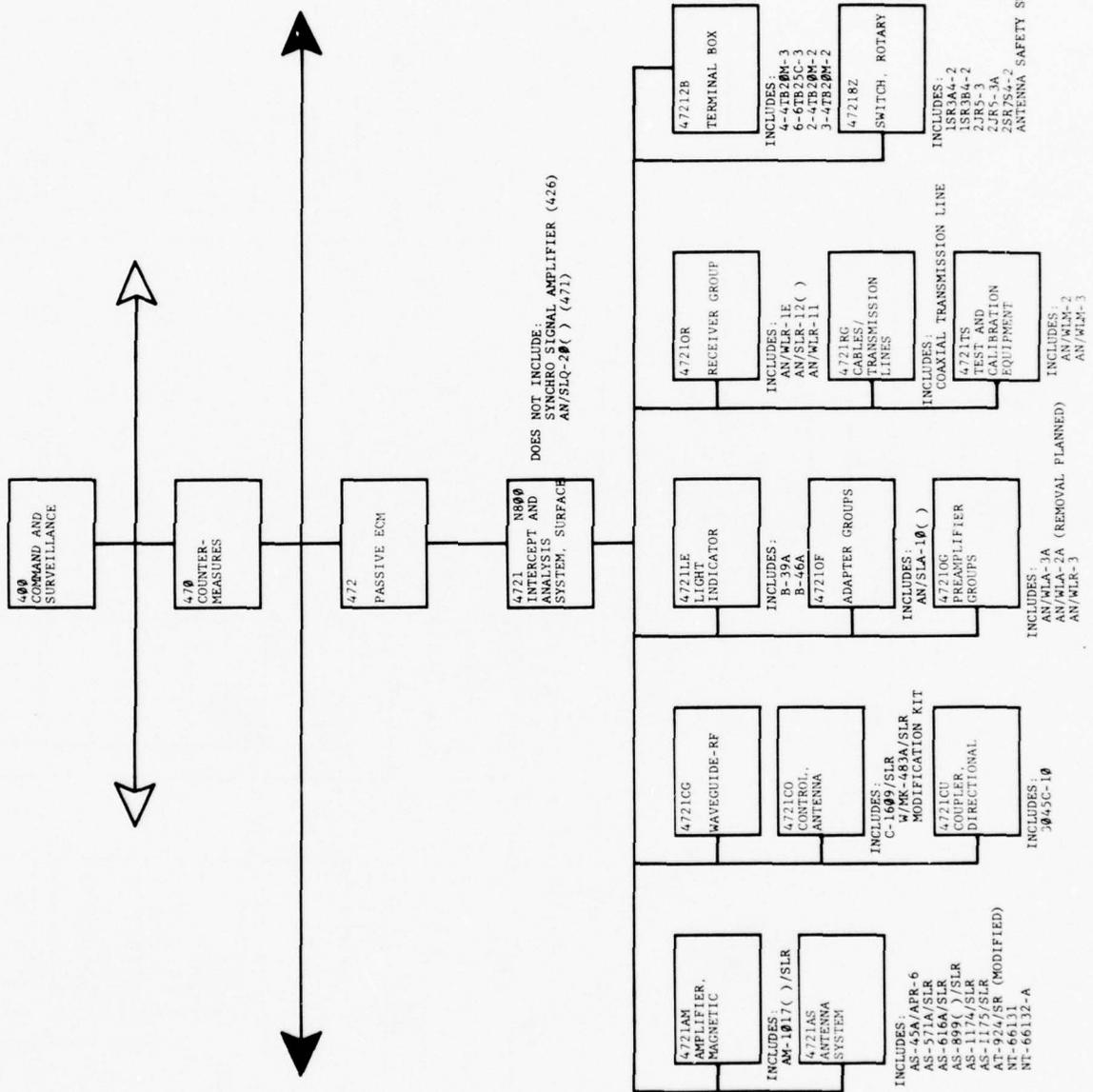


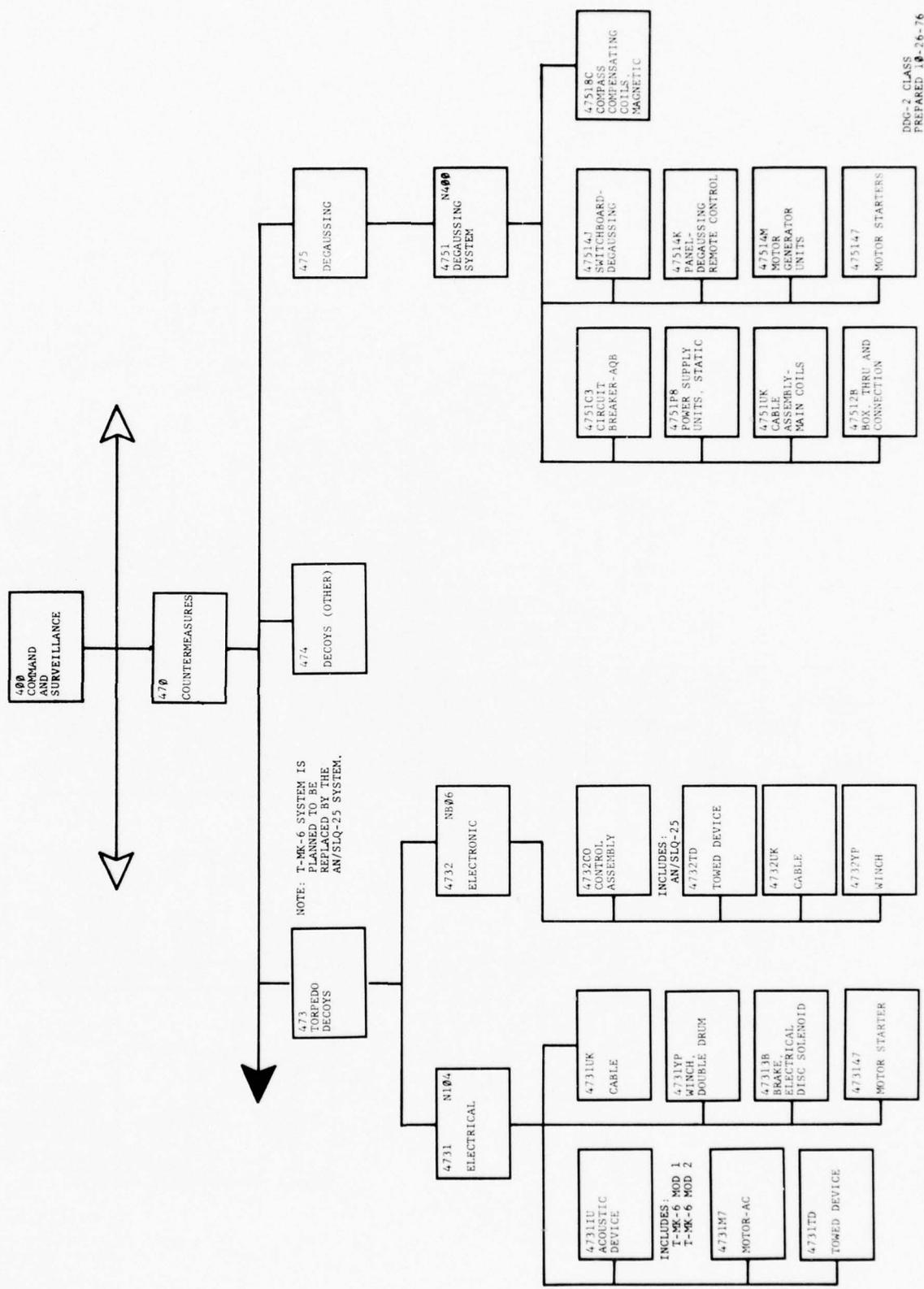


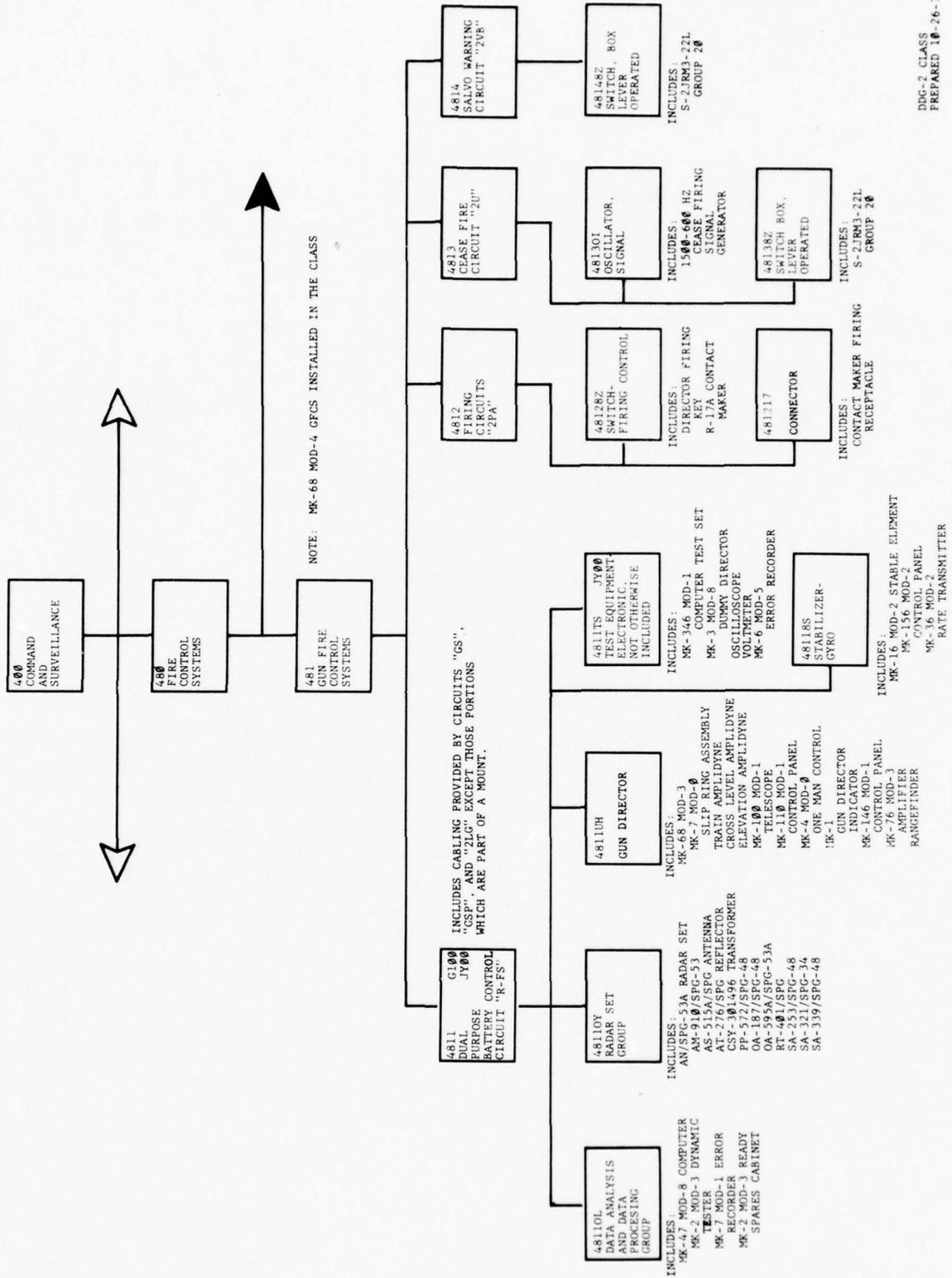


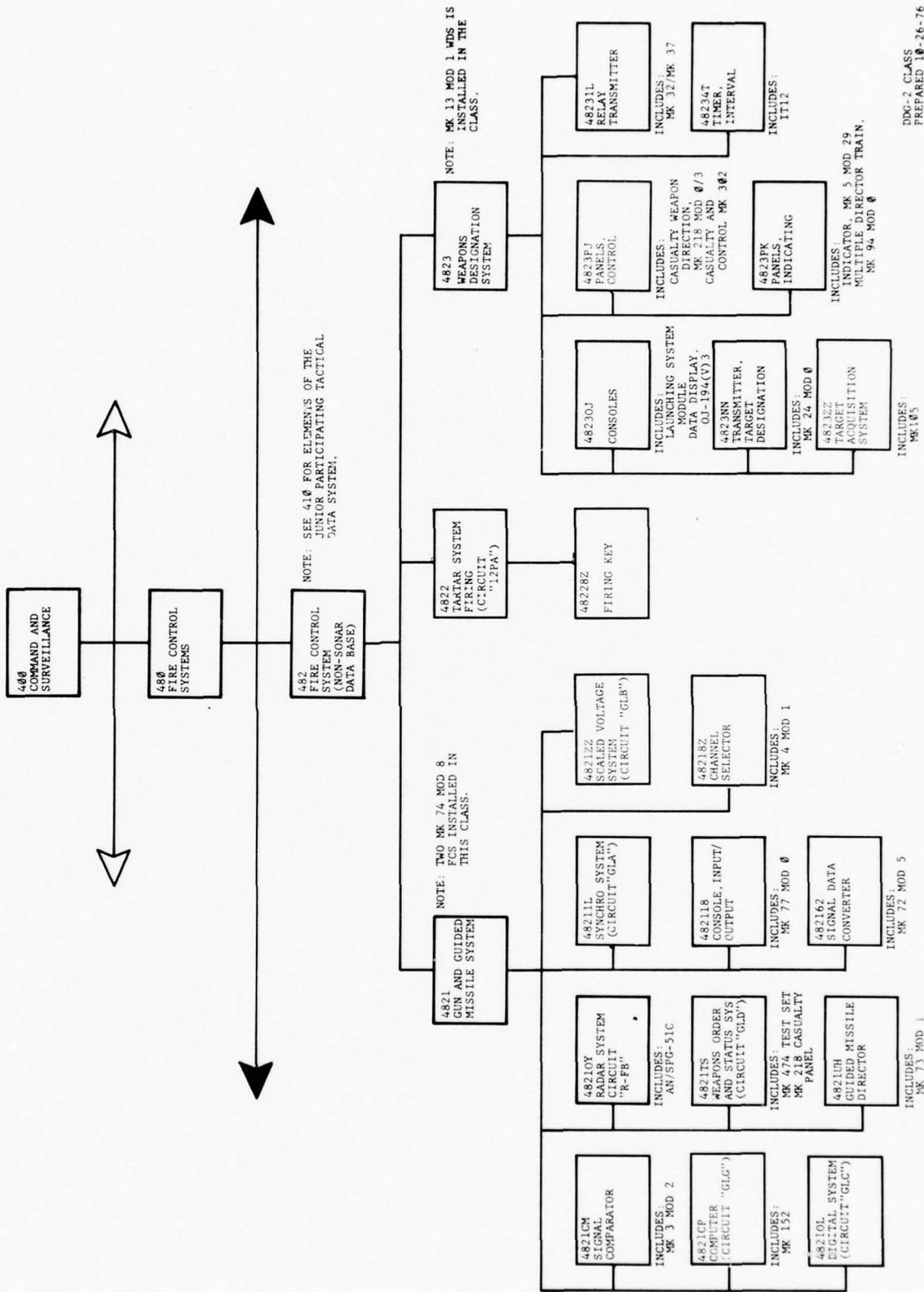


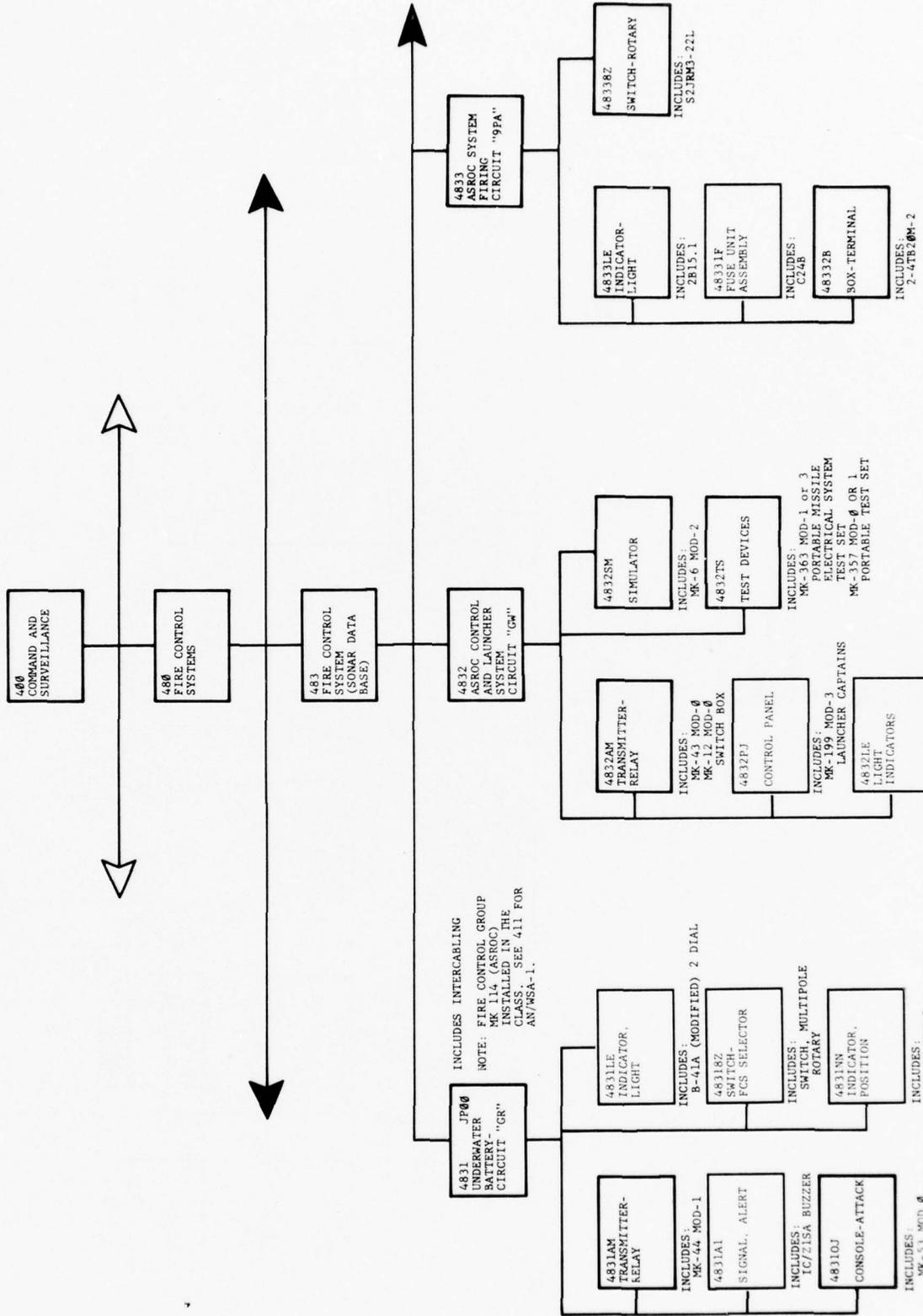










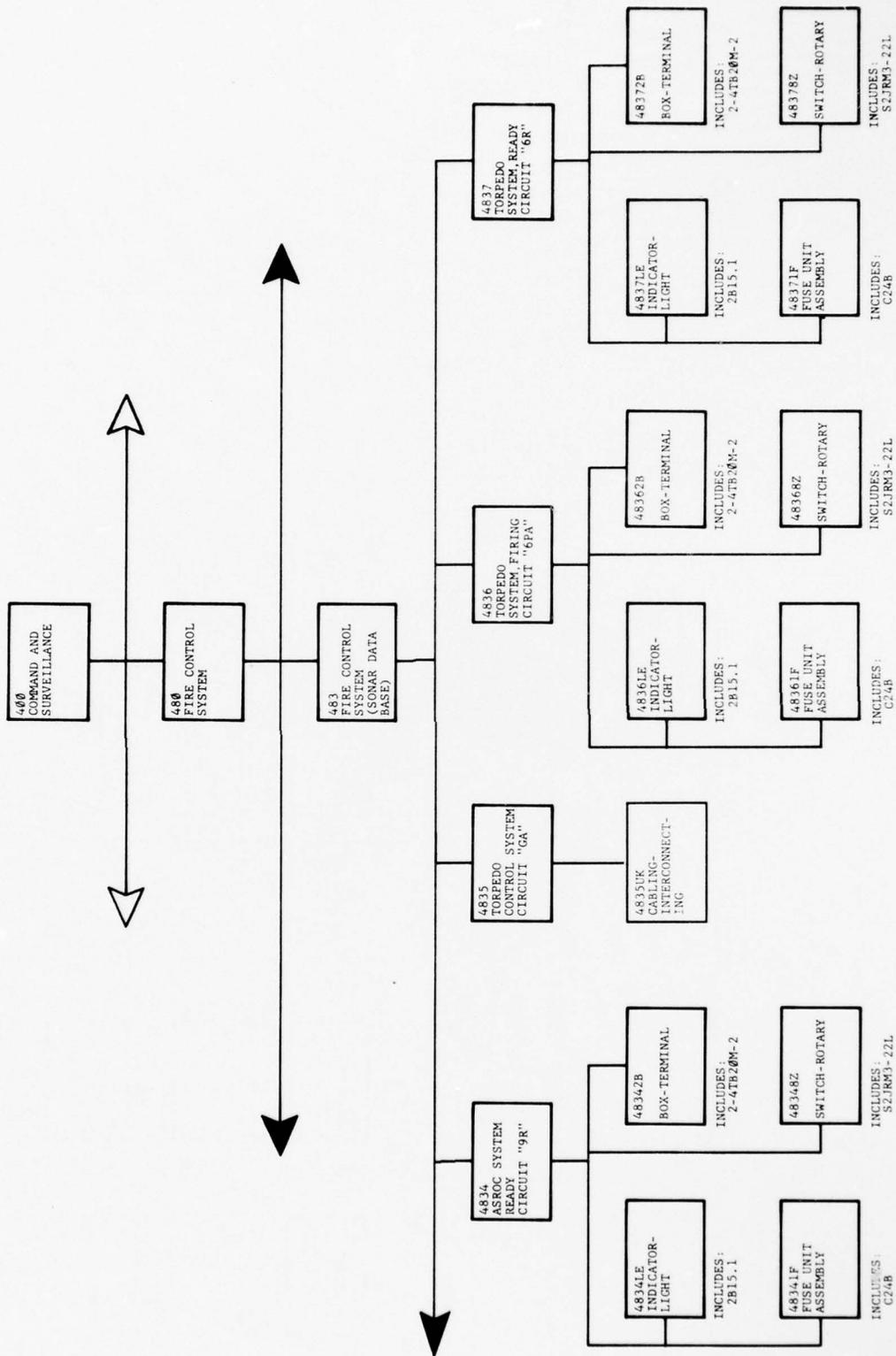


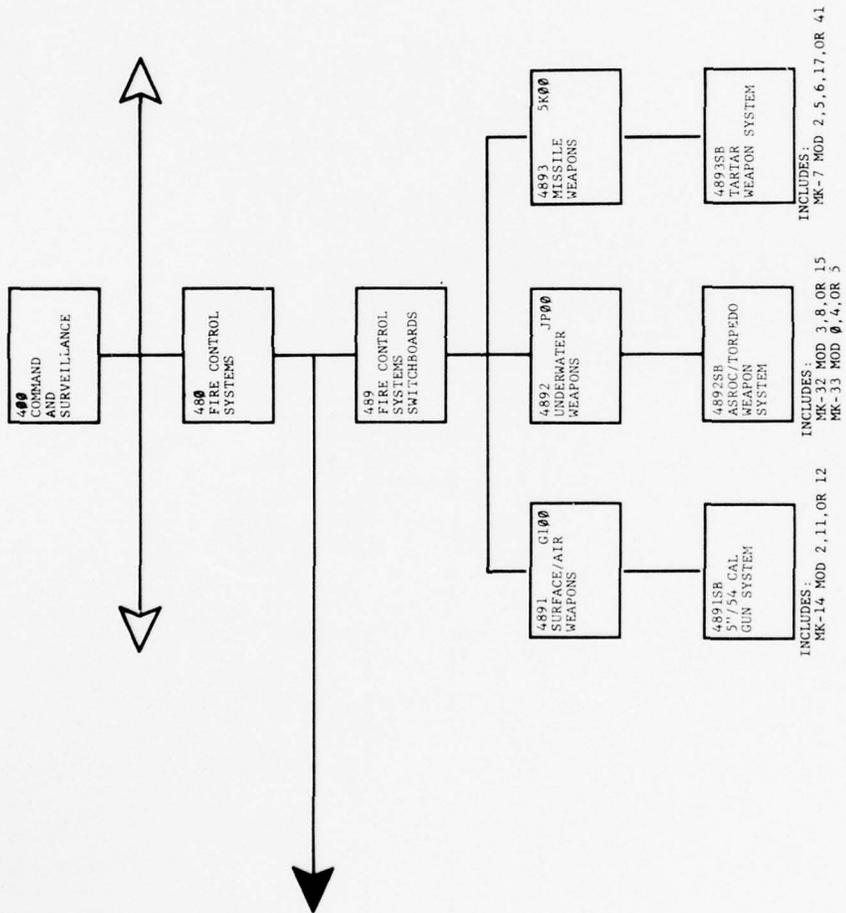
DDG-2 CLASS
PREPARED 10-26-76

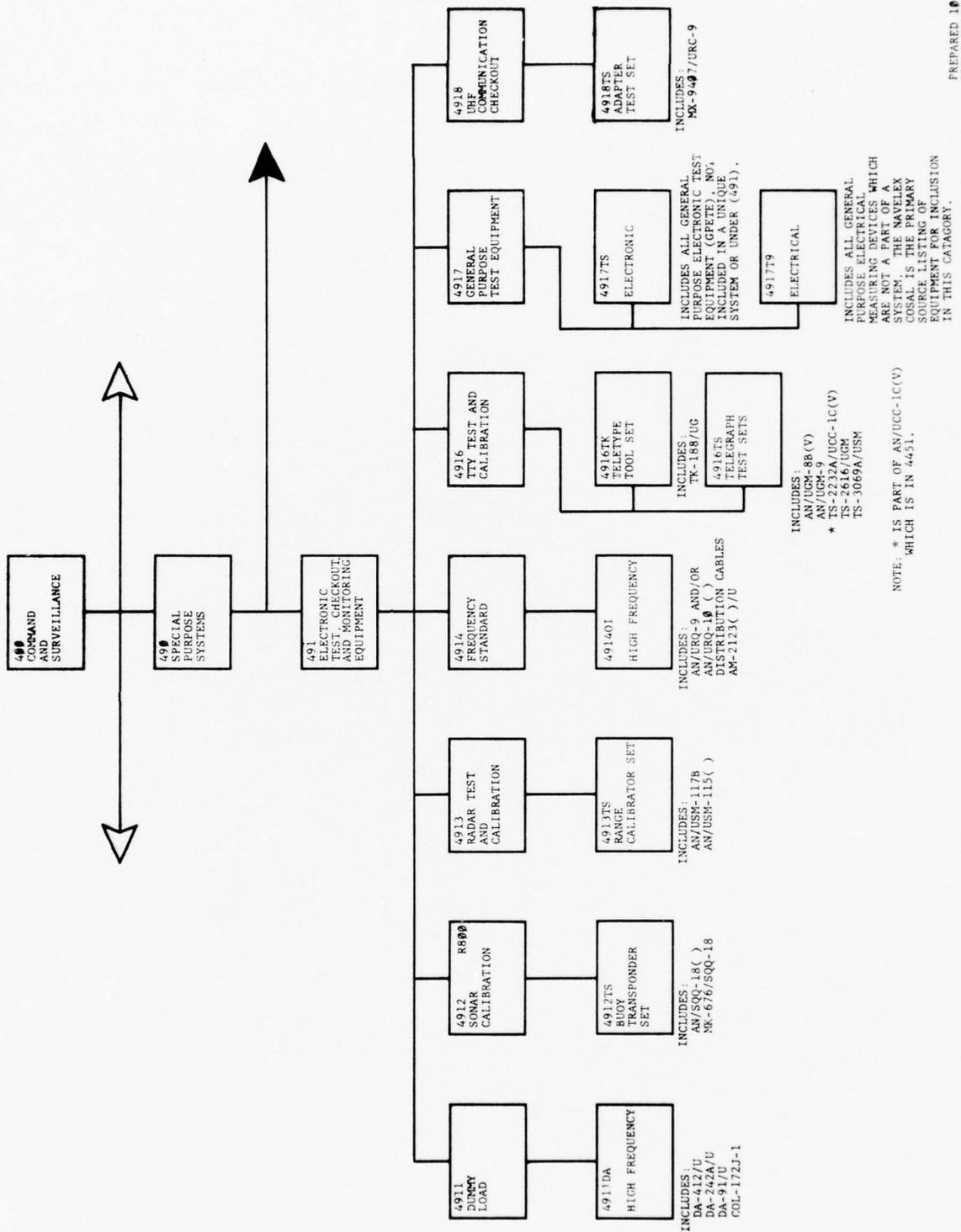
INCLUDES B-41A (MODIFIED) 2 DIAL

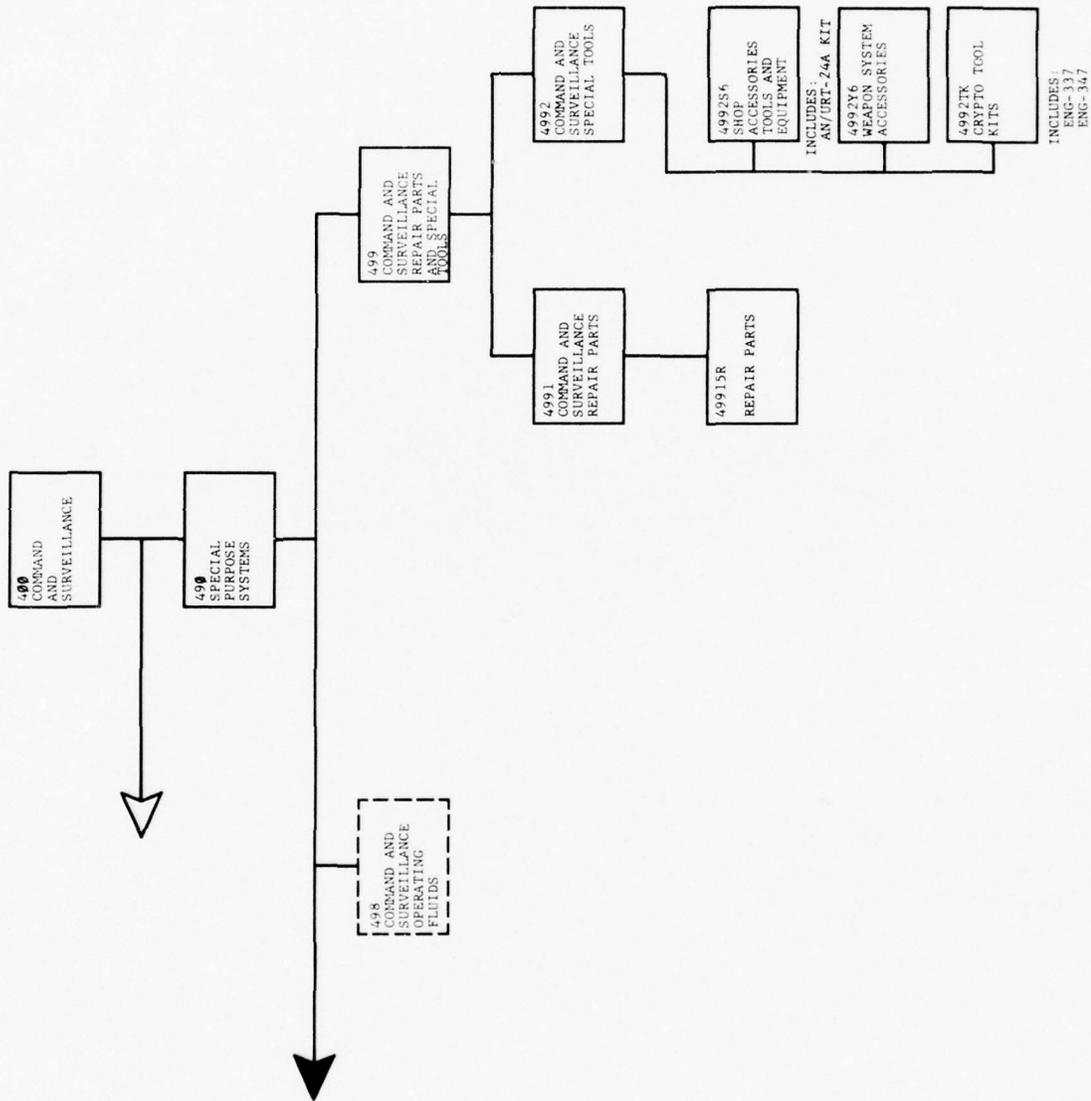
INCLUDES MK MOD 9 MK-2 CONTROL INDICATORS MK-2 PILOT INDICATORS

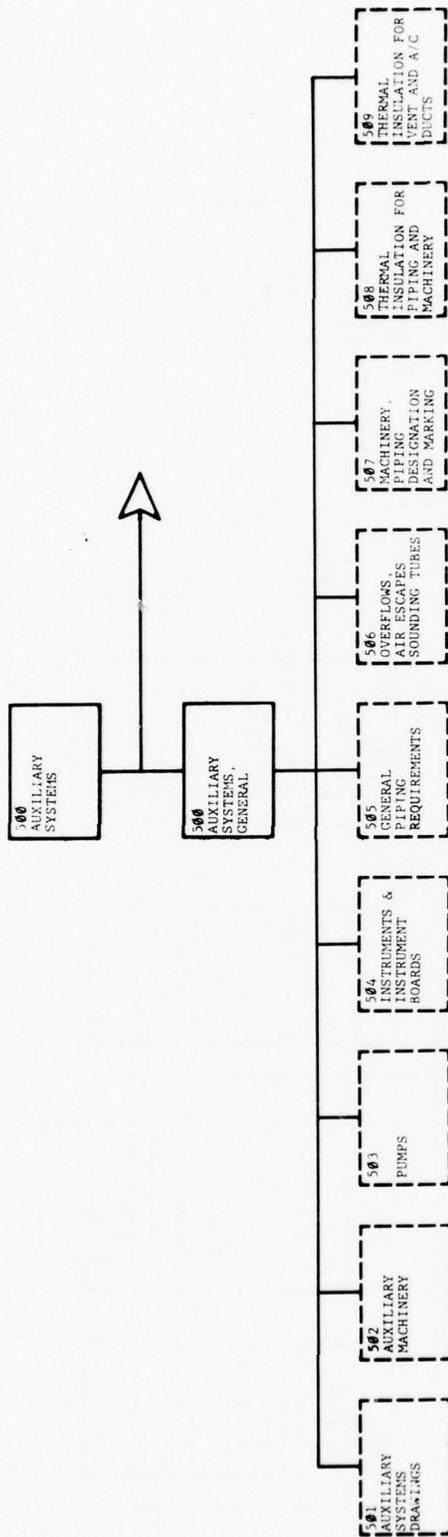
INCLUDES MK-53 MOD 0 SWITCH, LEVER OPERATED TYPE S-2JRM-3-22L

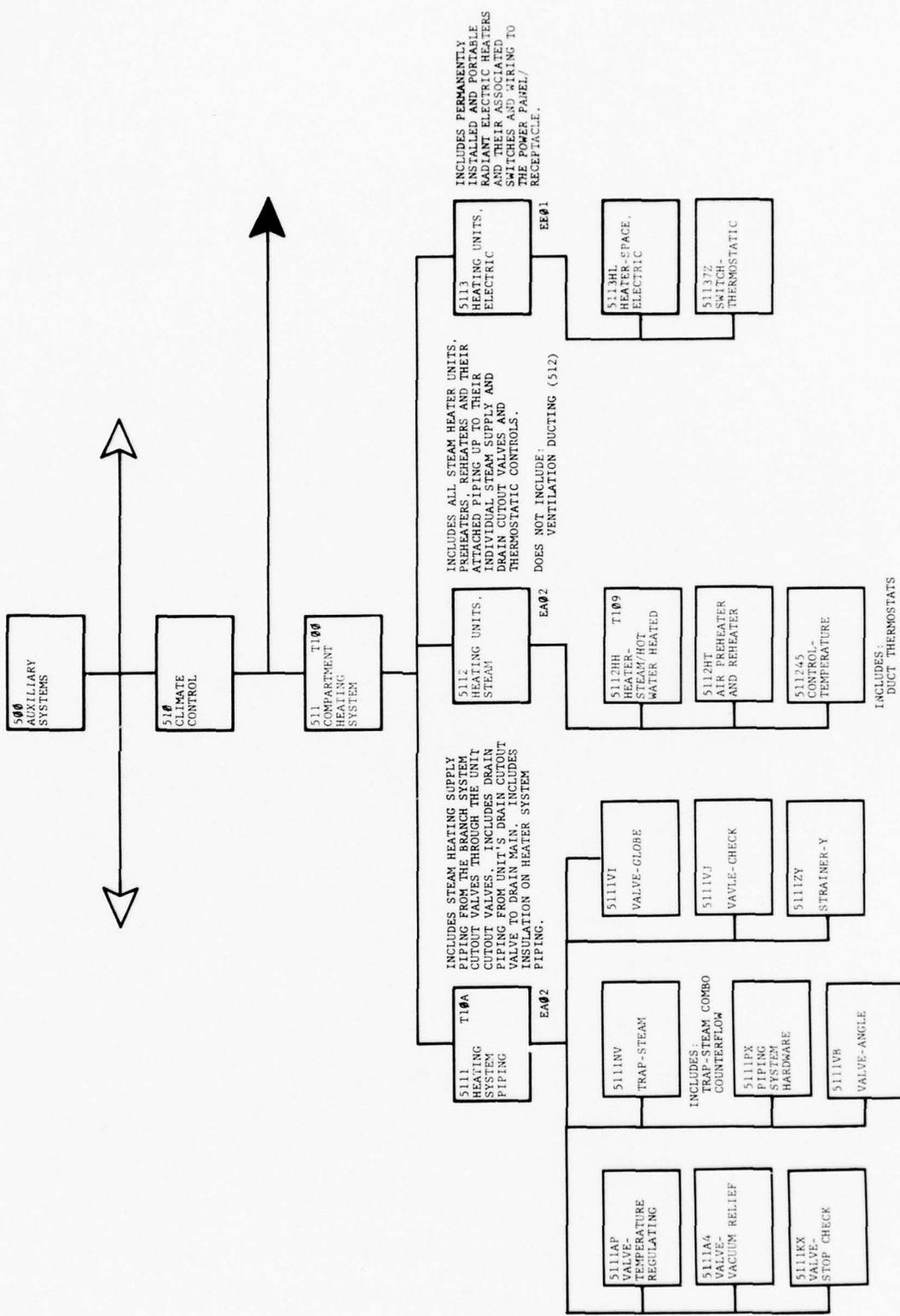


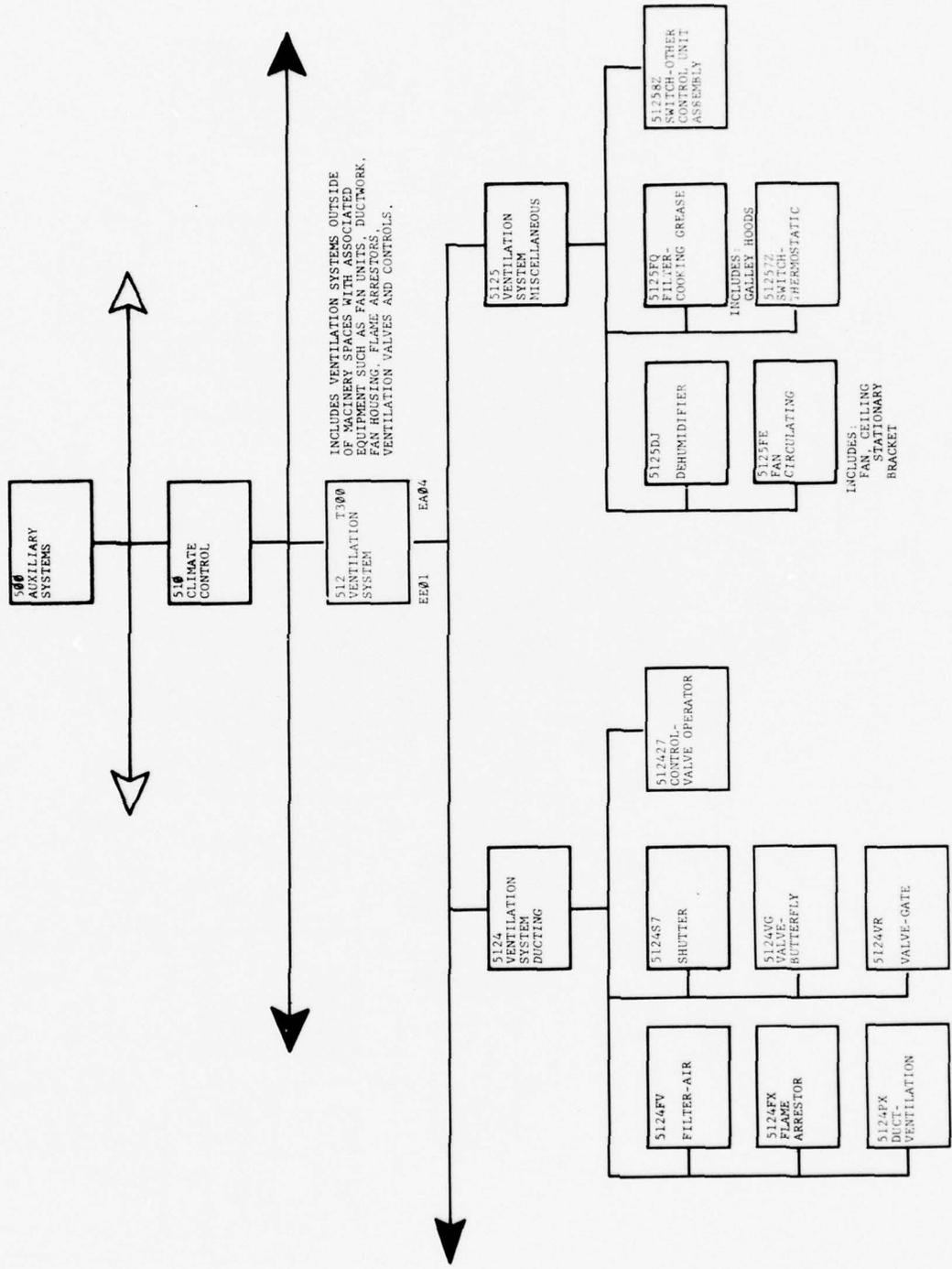


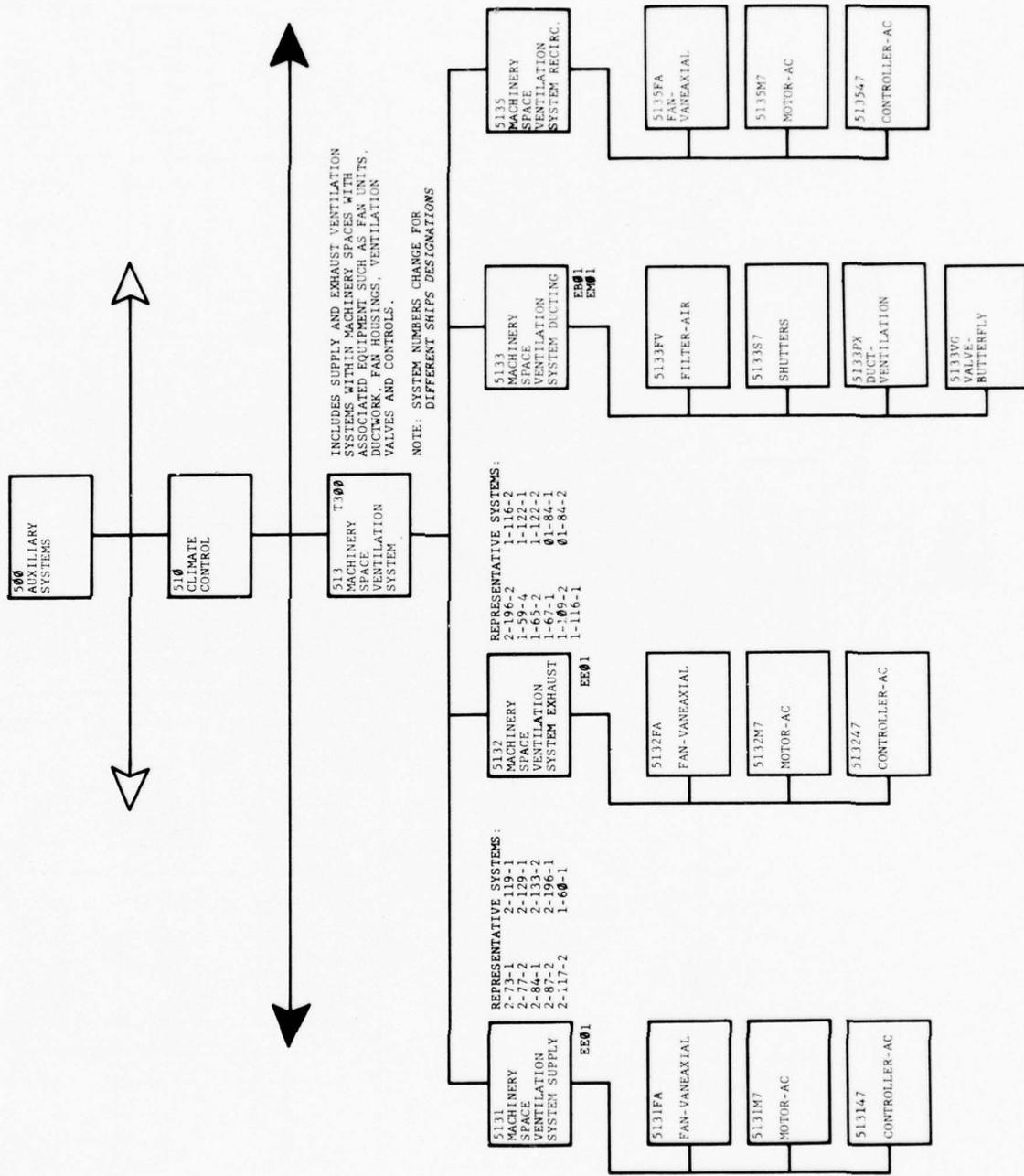


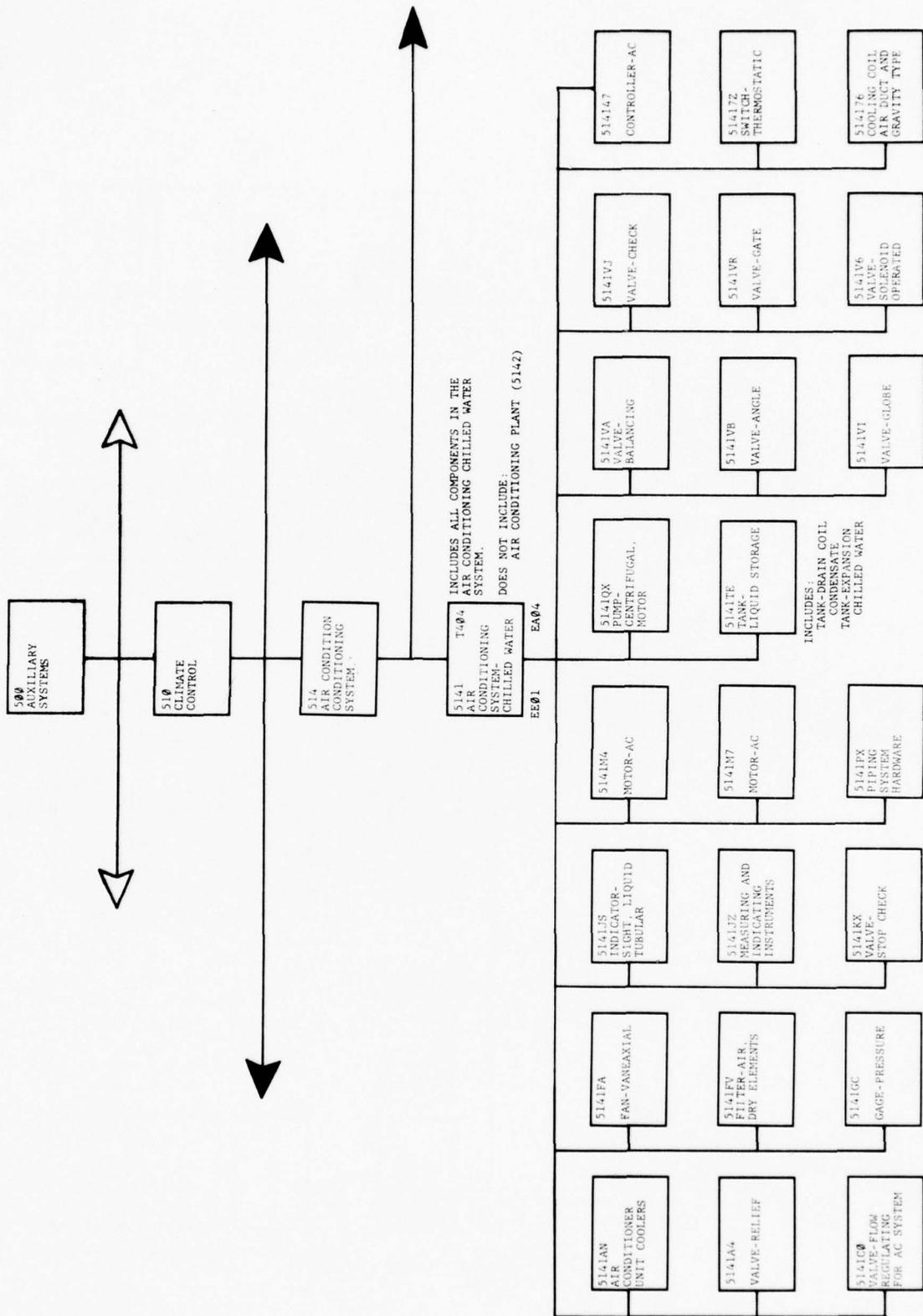




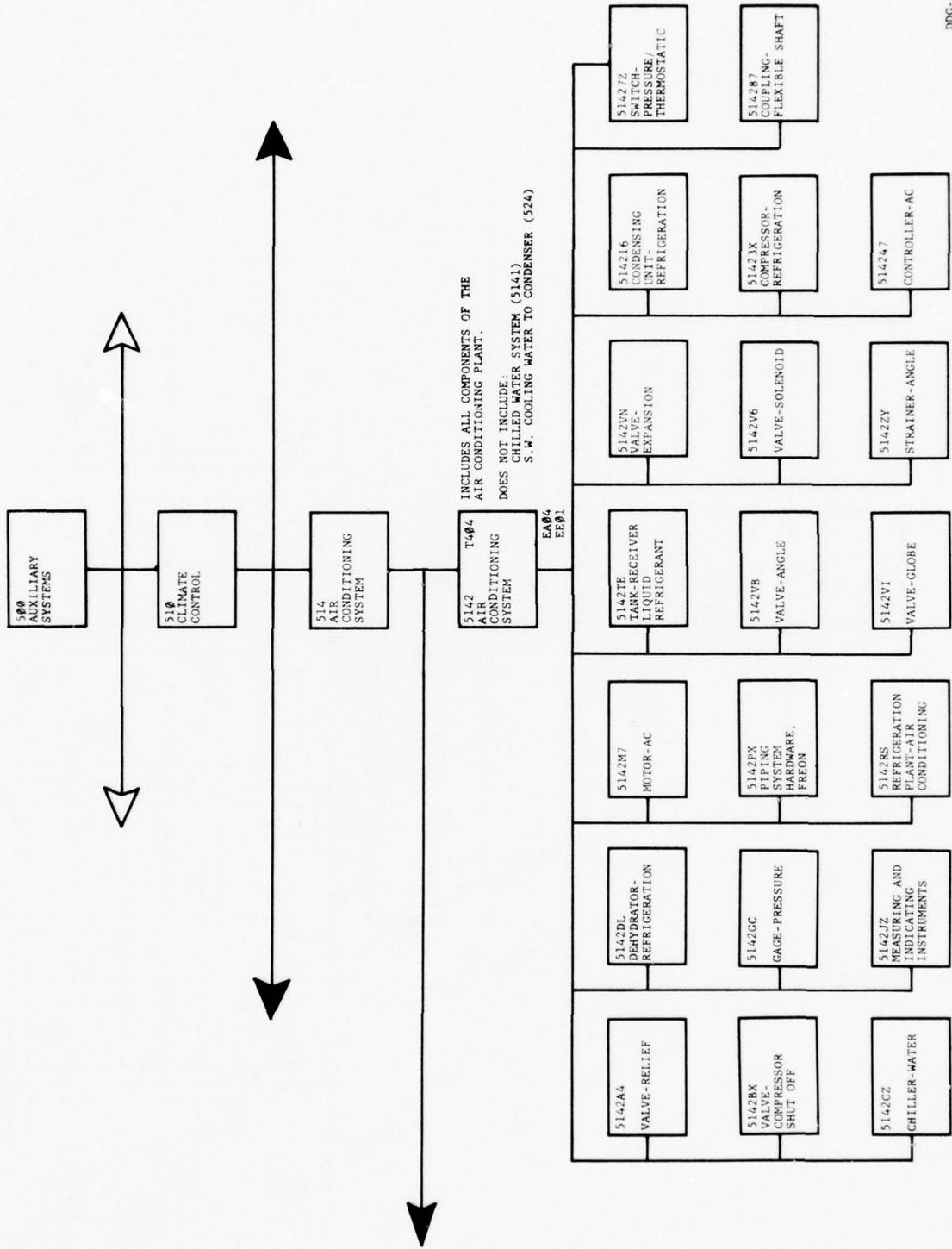


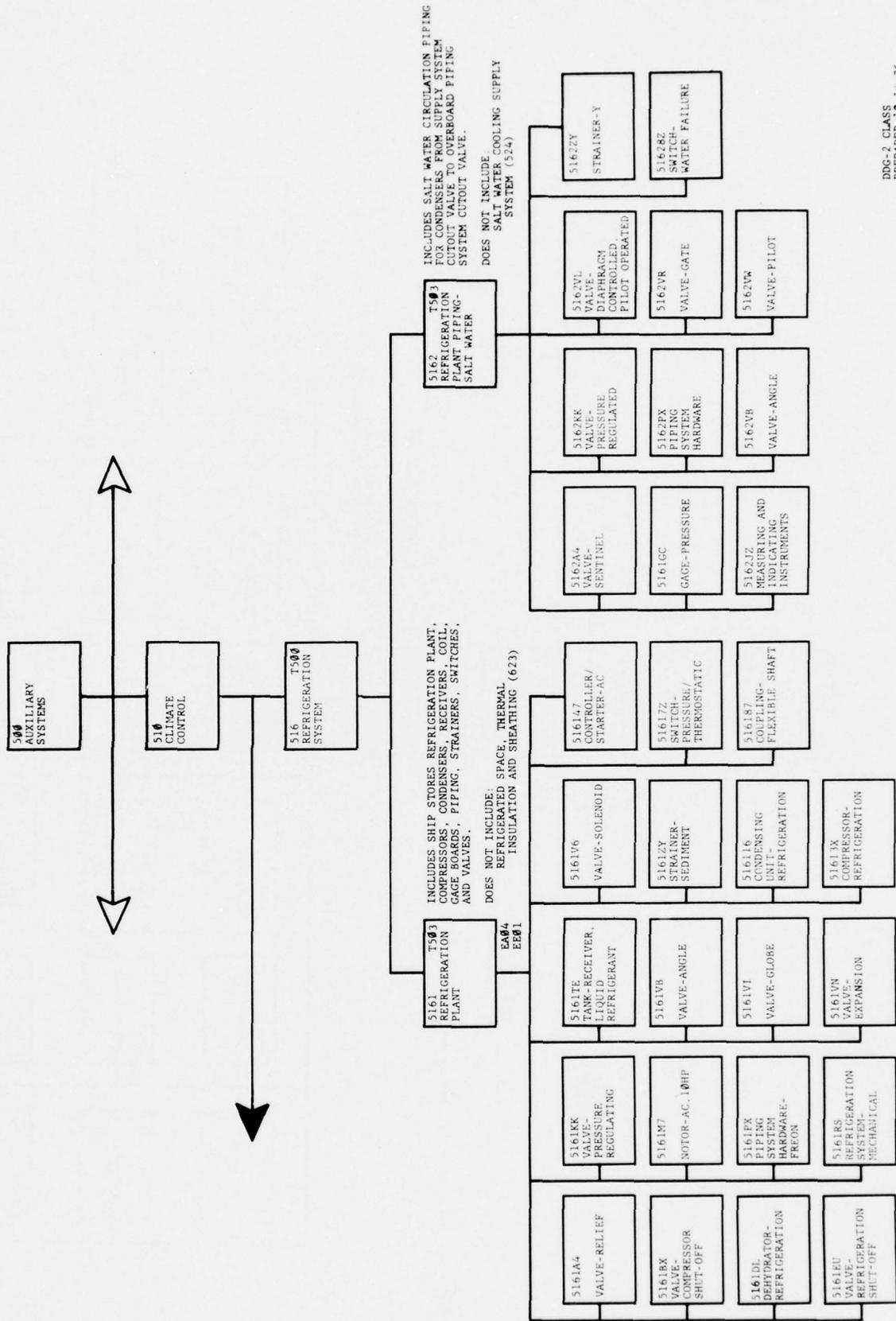


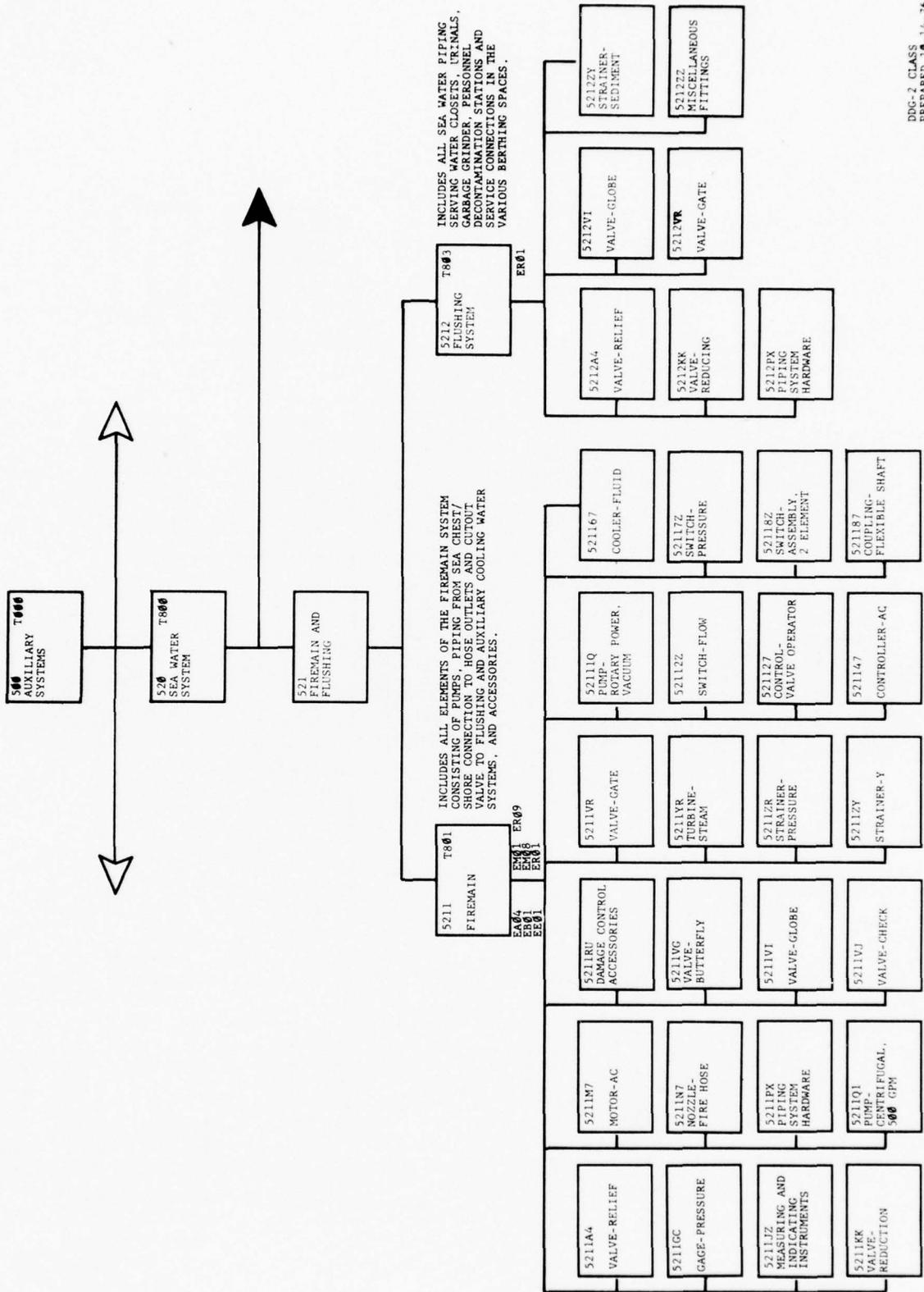


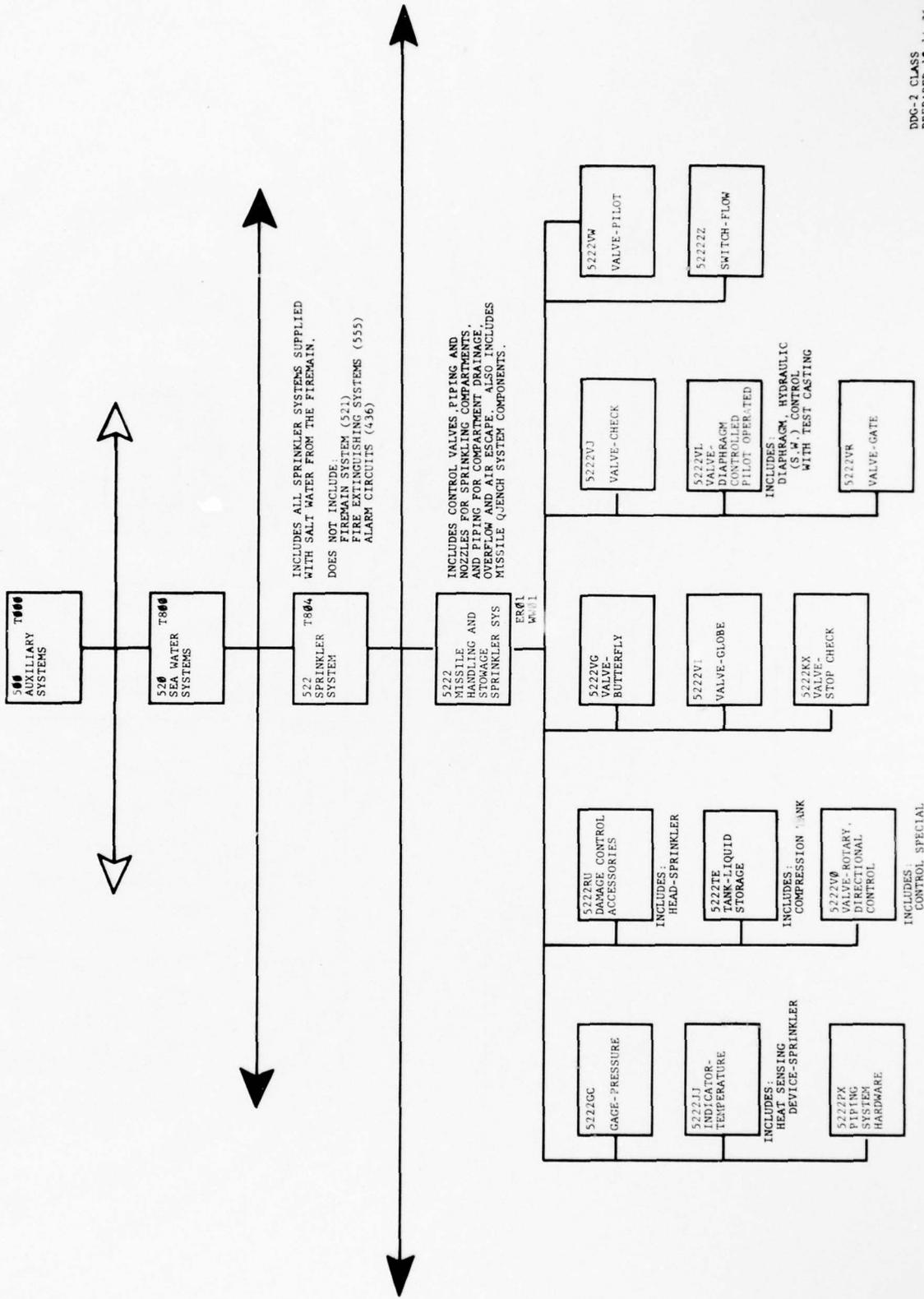


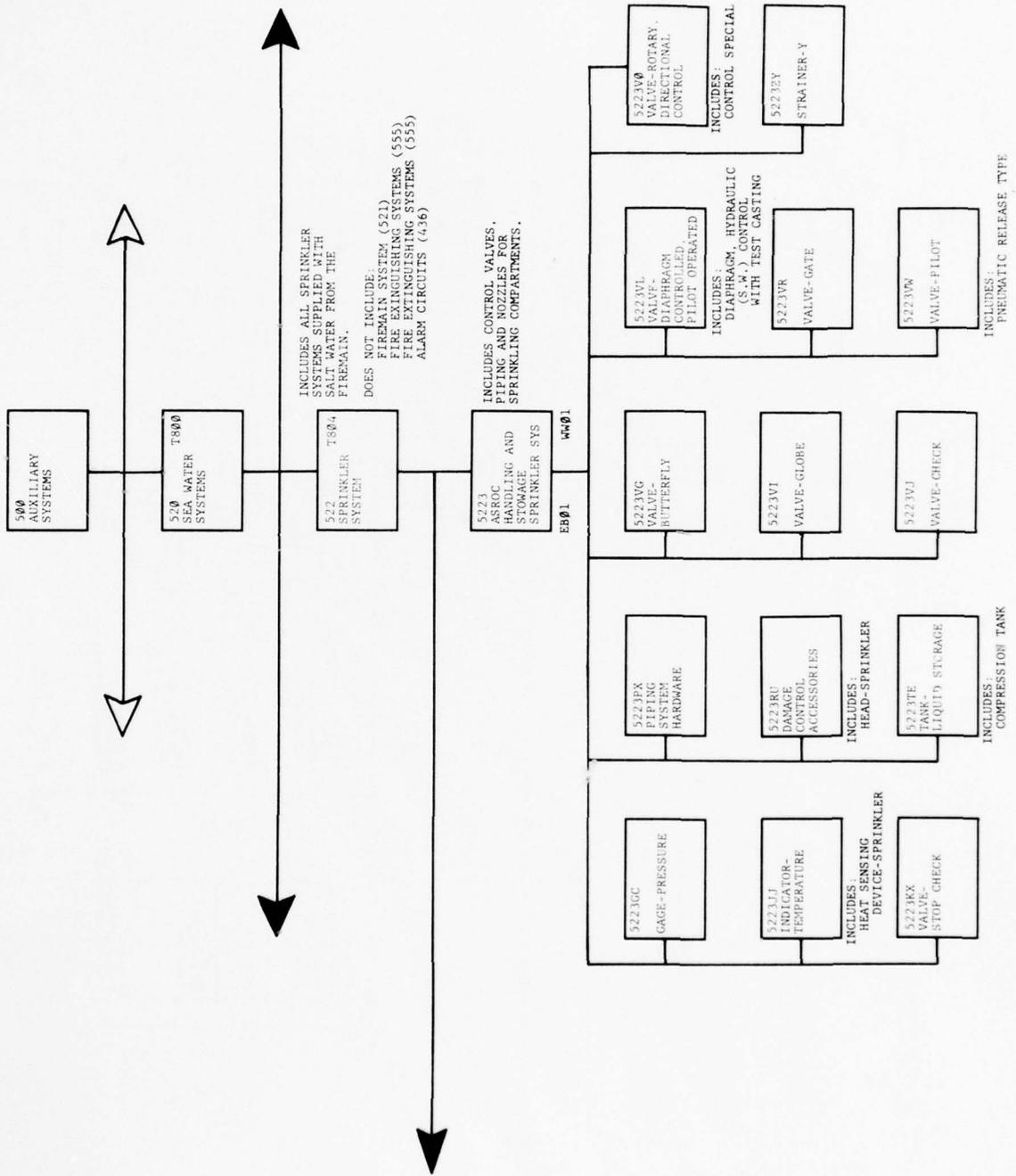
DDG-2 CLASS
PREPARED 10-7-76

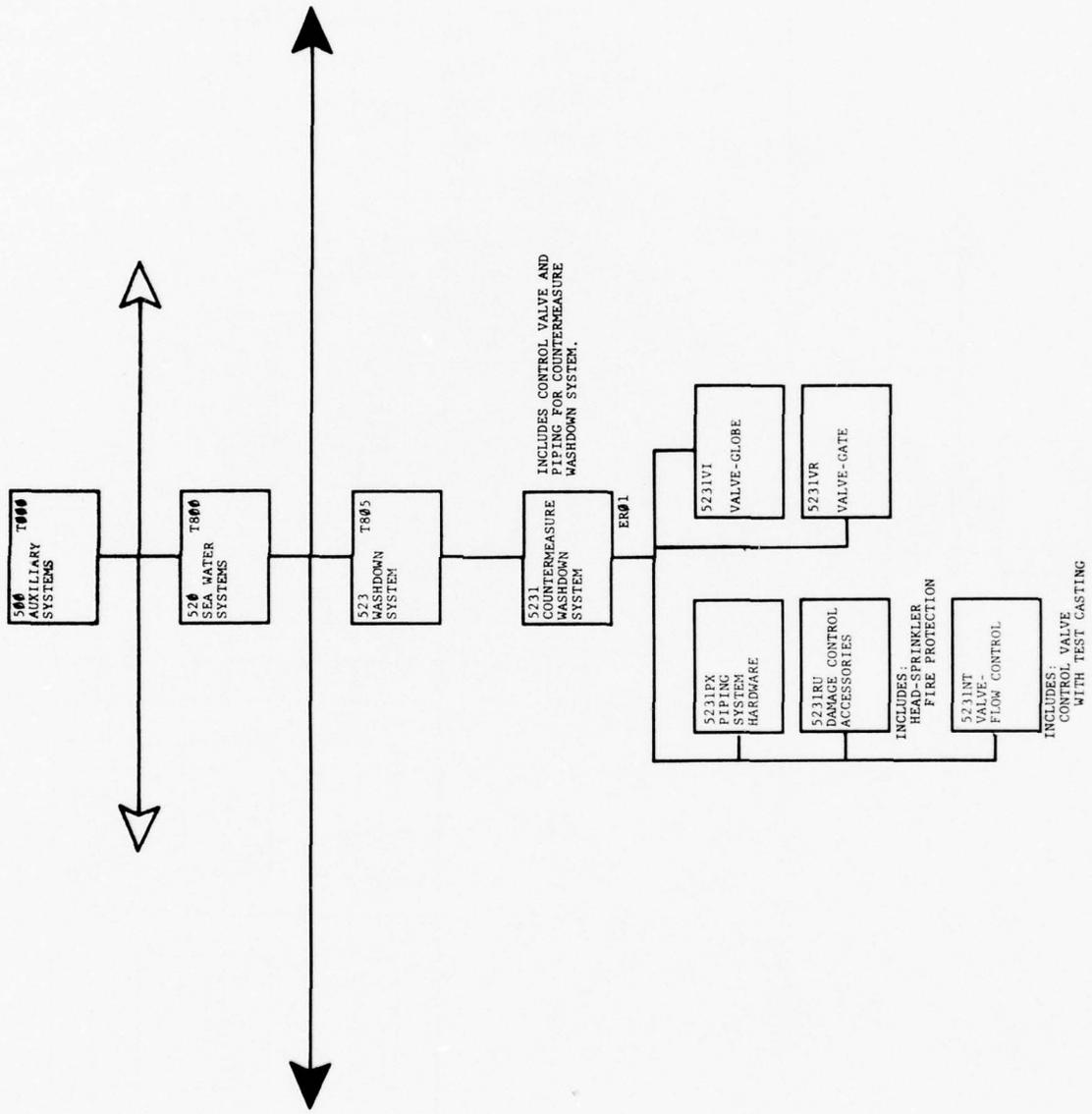


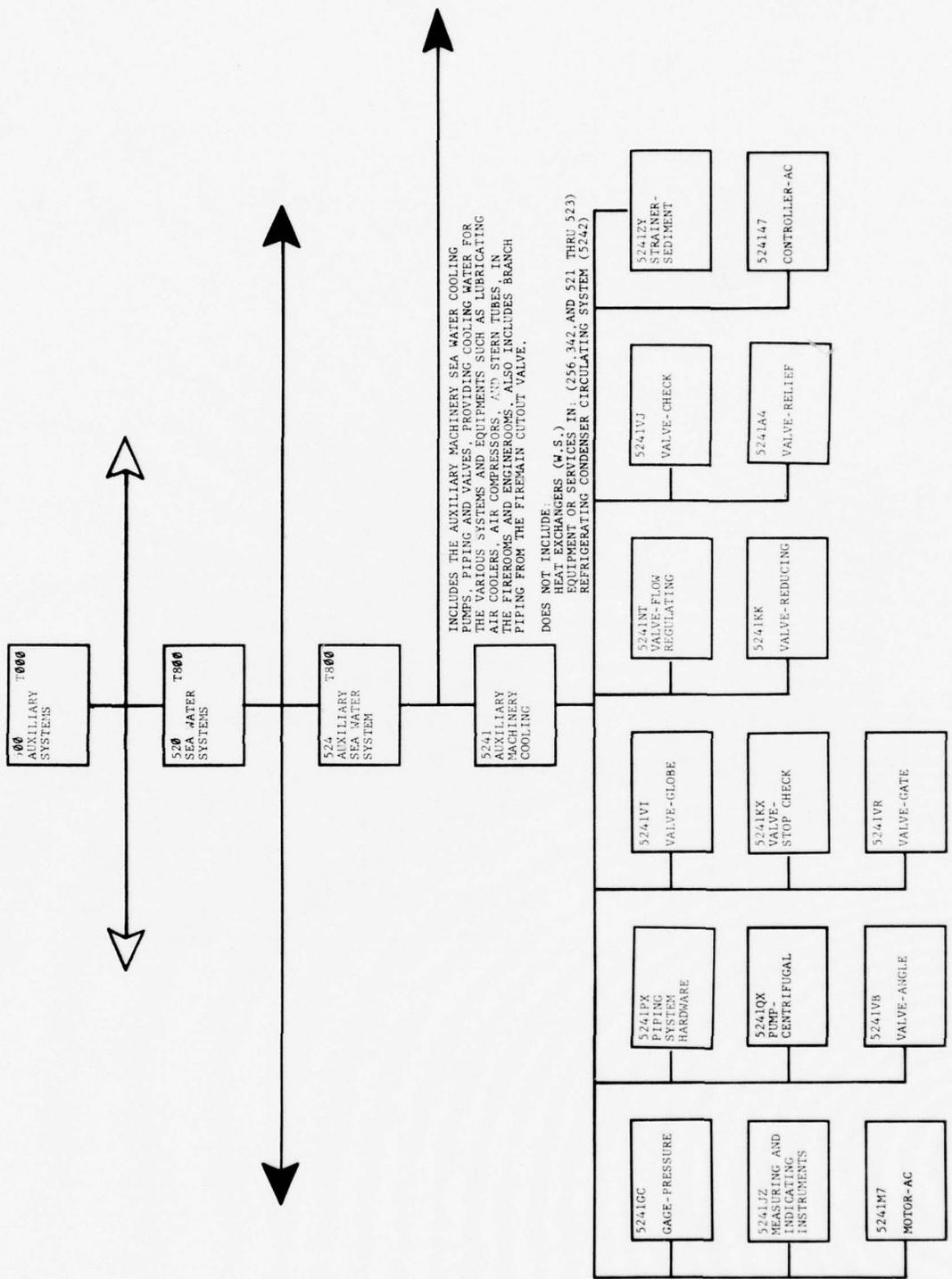


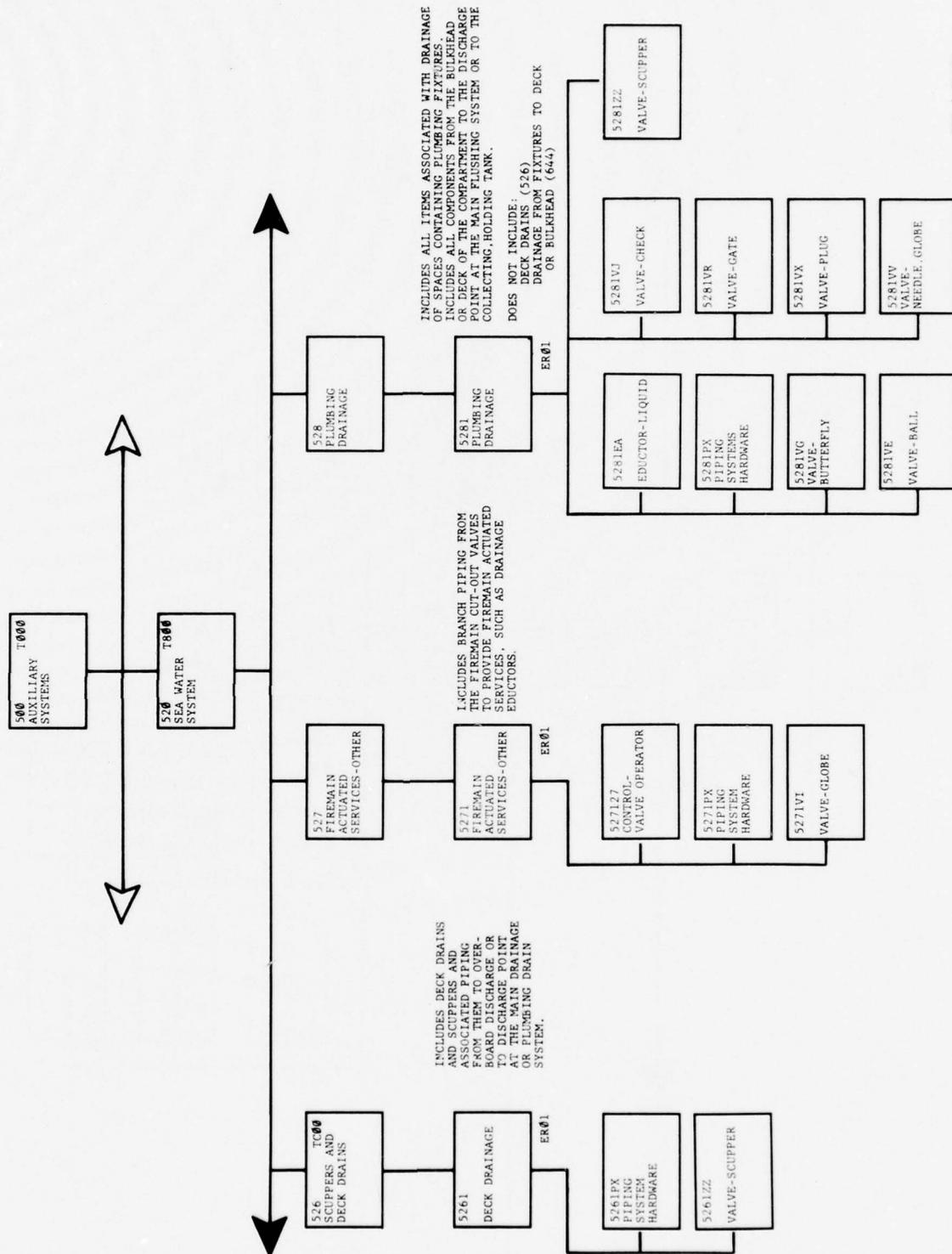


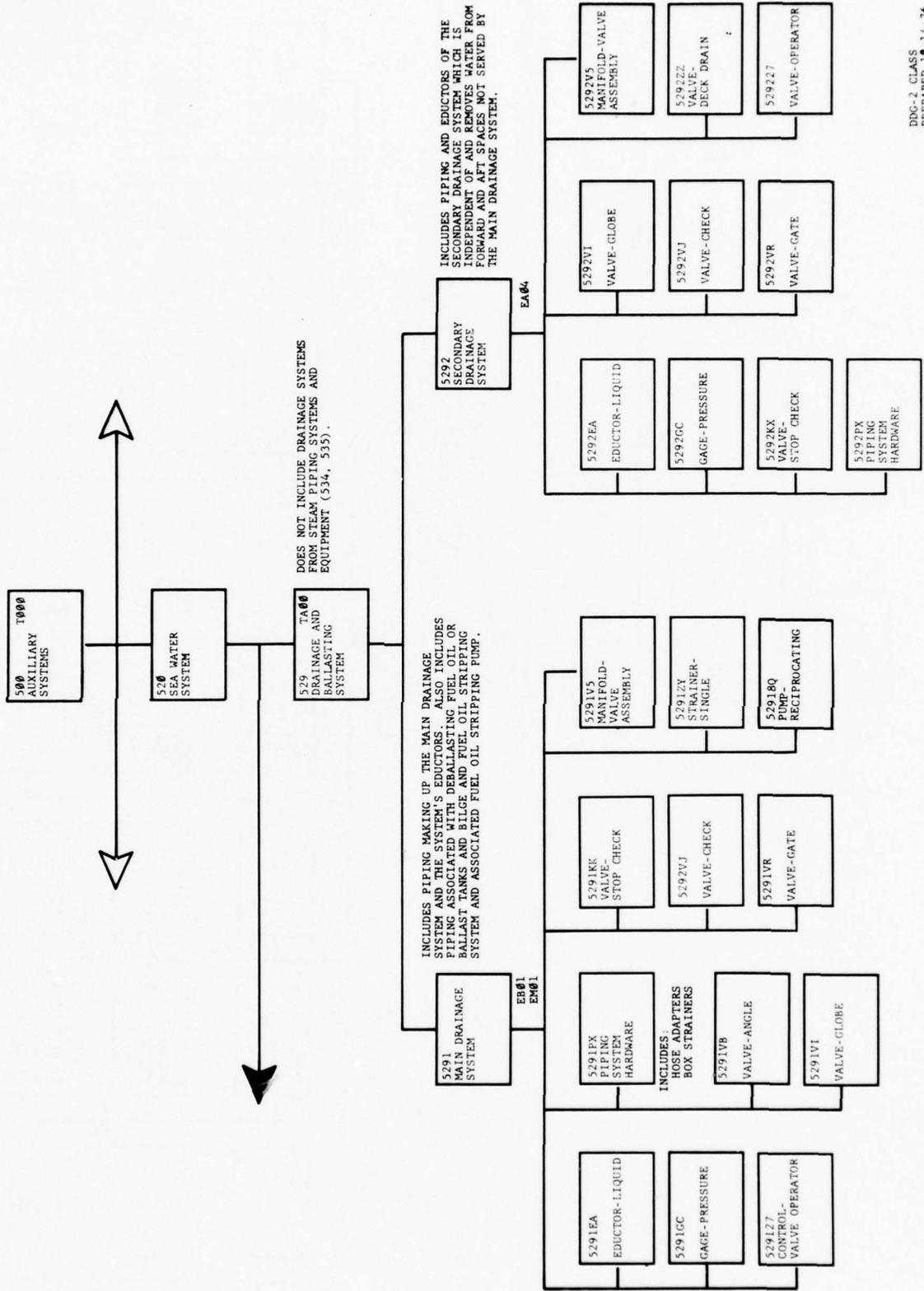


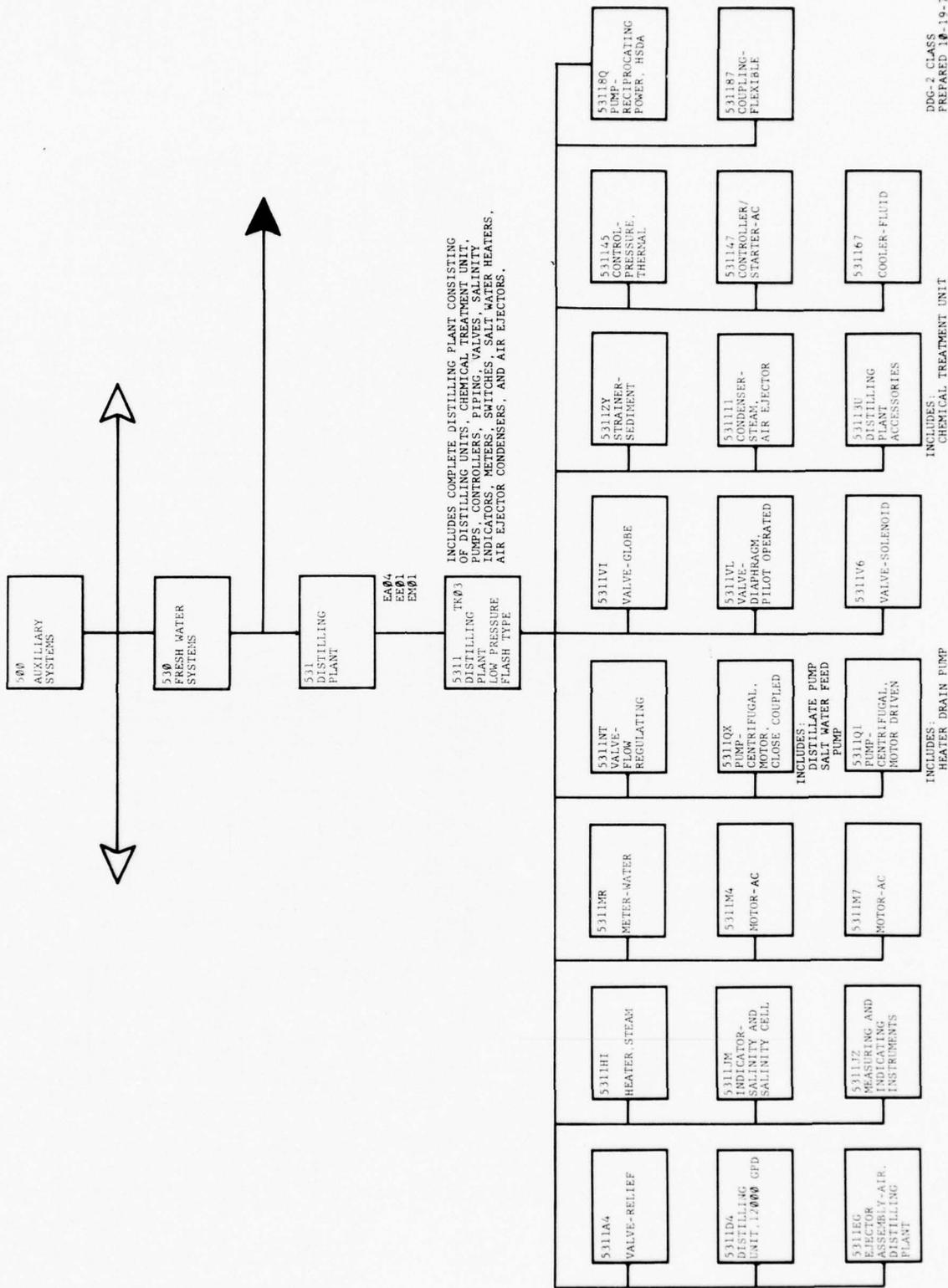


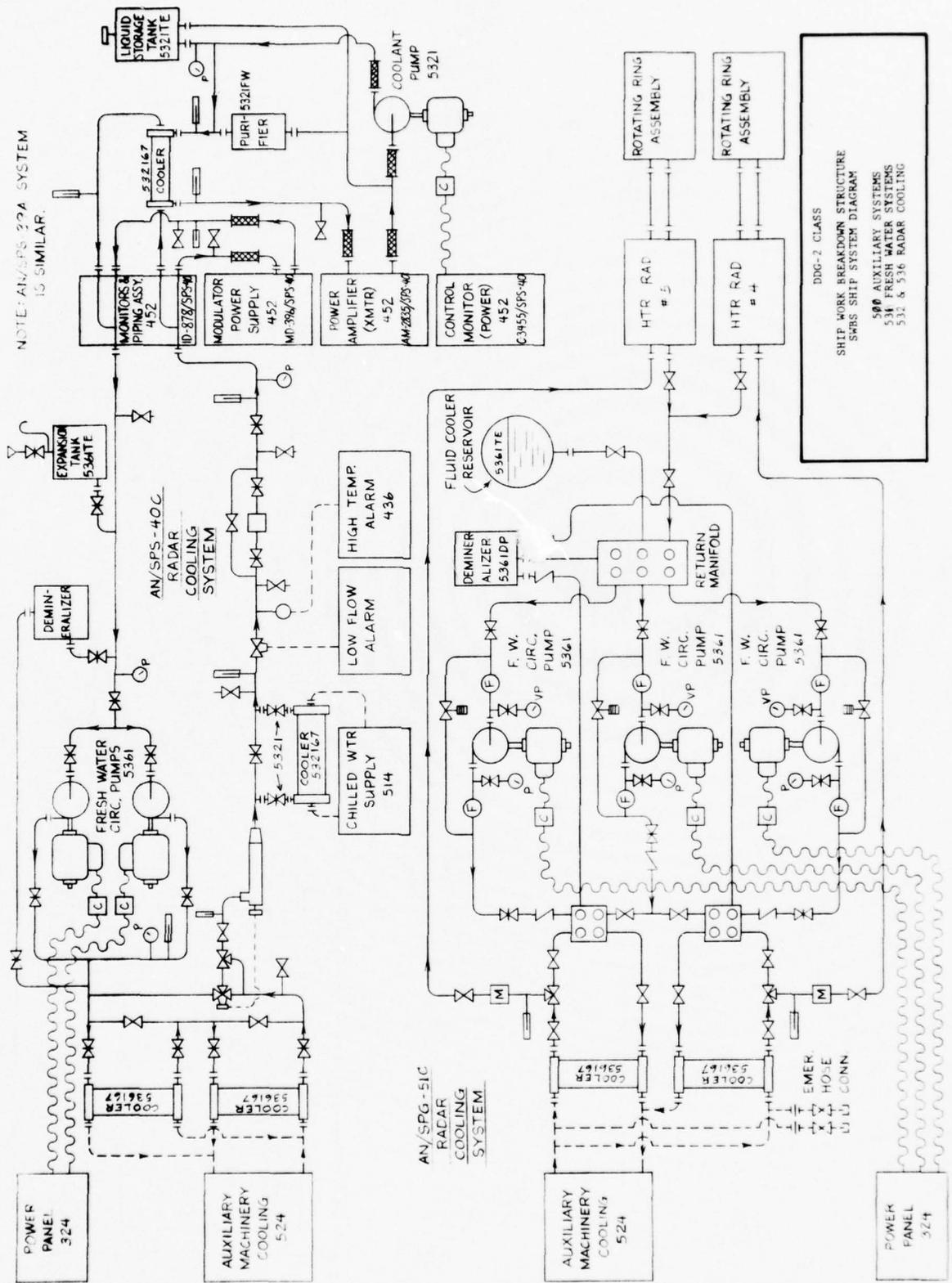






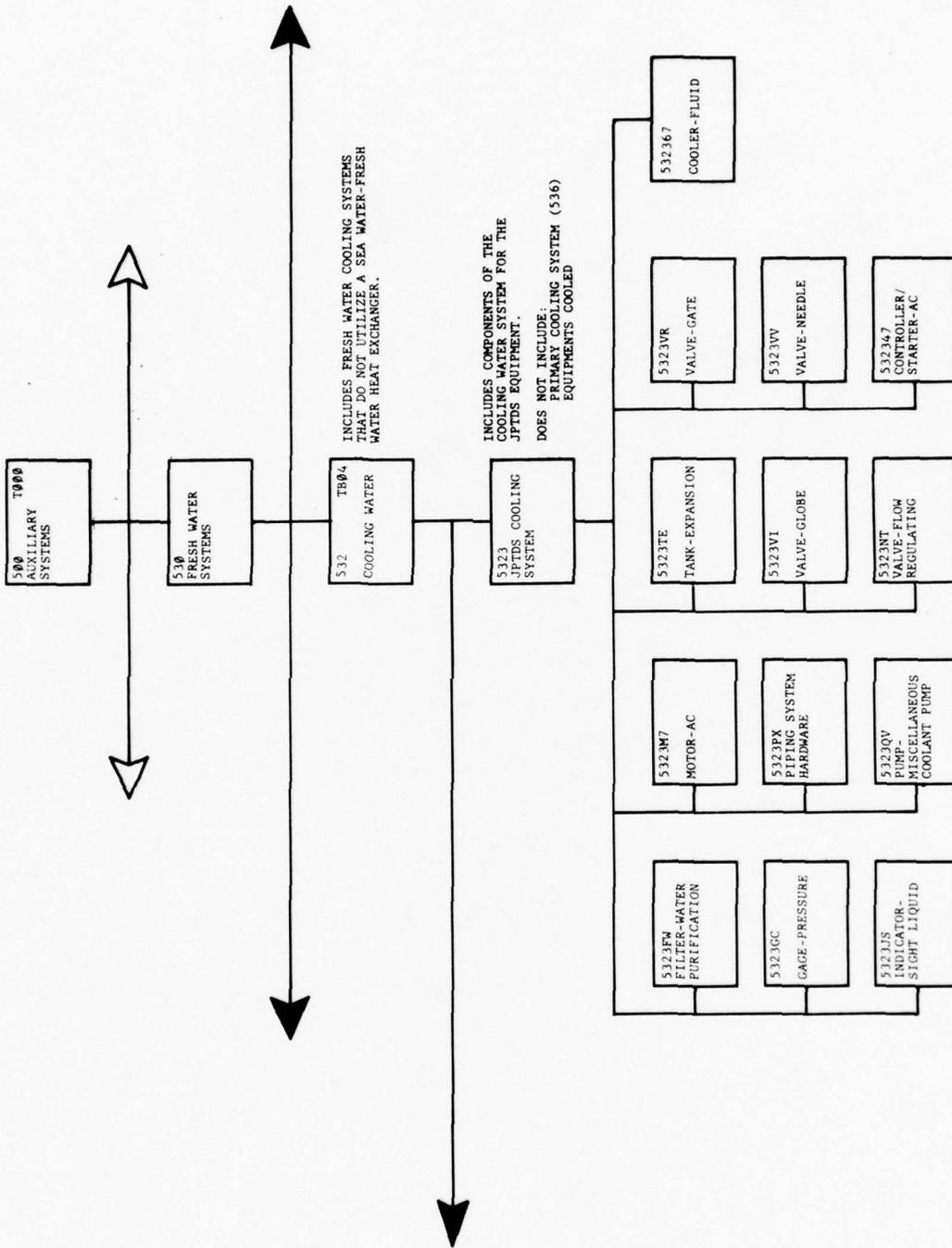


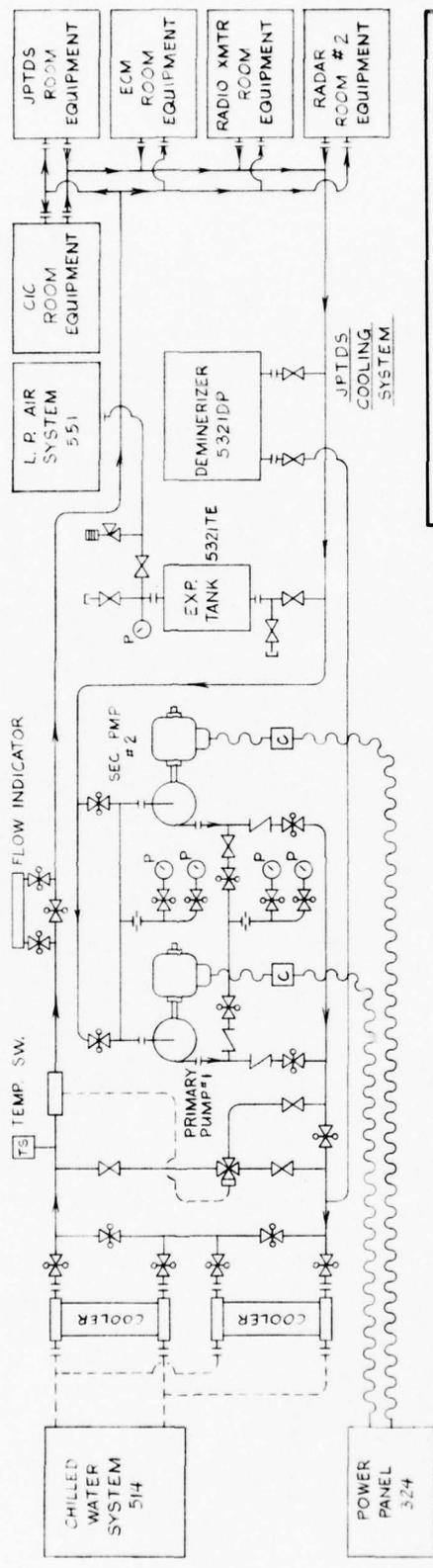




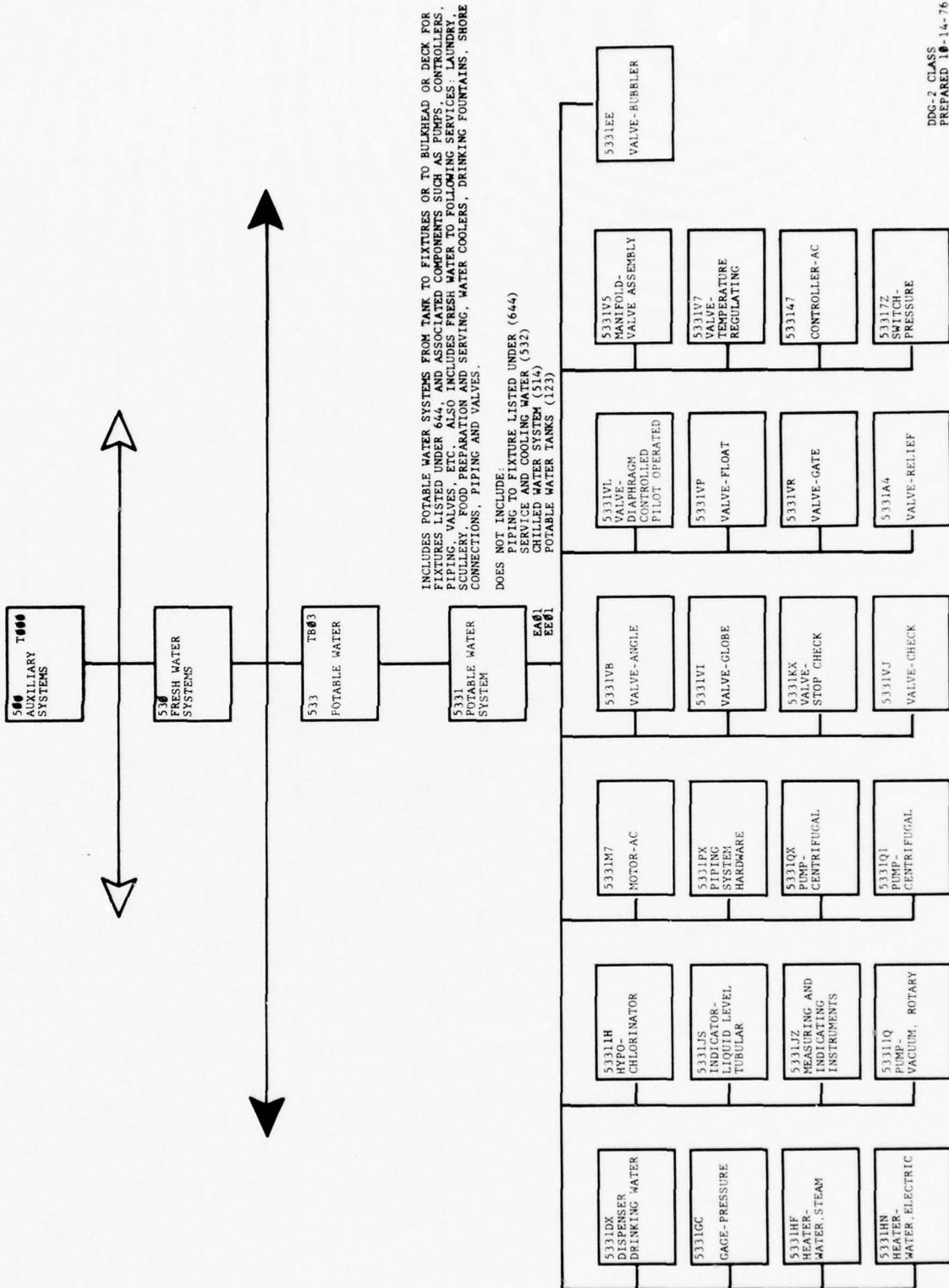
NOTE: AN/SPS-22A SYSTEM IS SIMILAR.

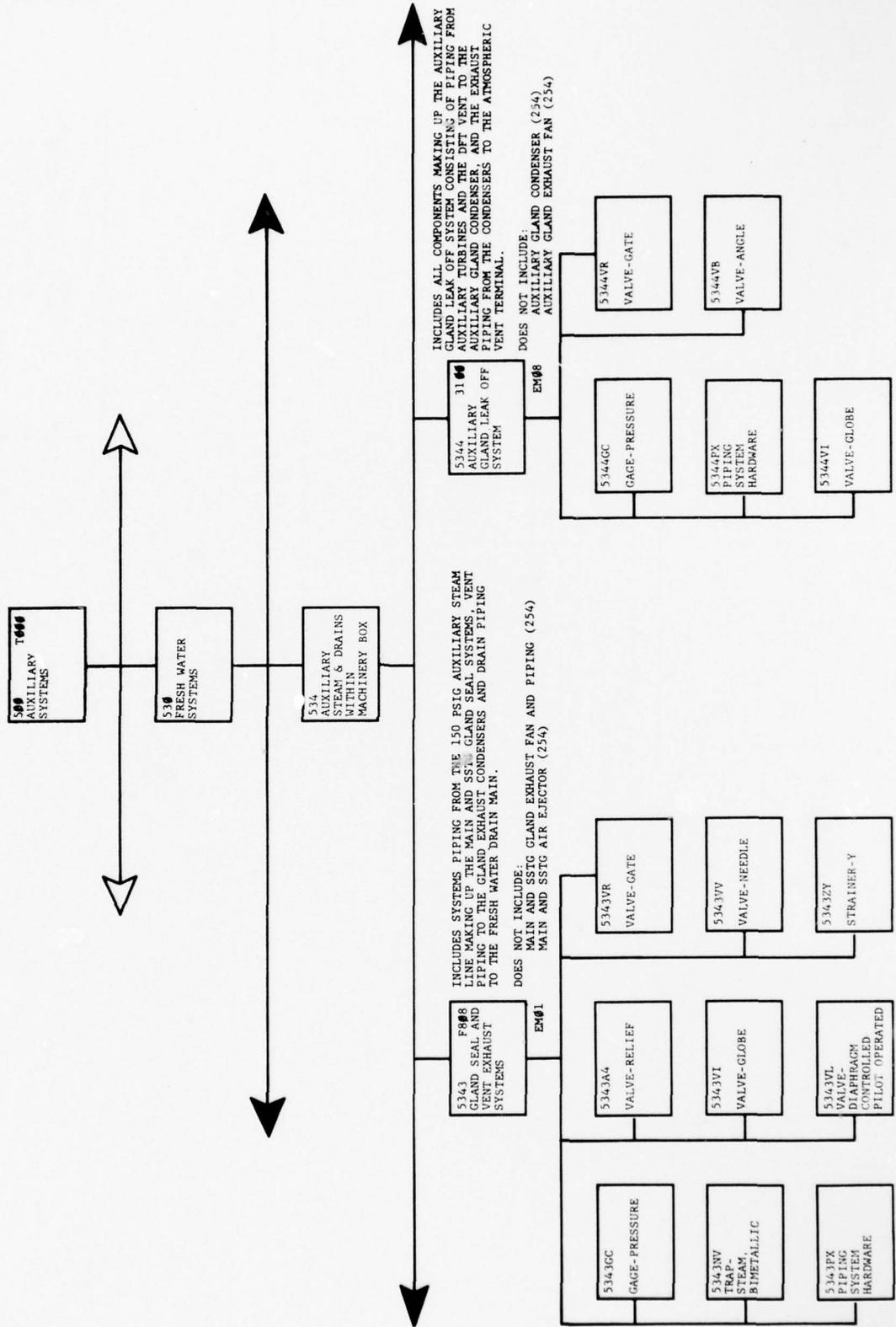
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 500 AUXILIARY SYSTEMS
 530 FRESH WATER SYSTEMS
 532 & 536 RADAR COOLING





DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 500 AUXILIARY SYSTEMS
 530 FRESH WATER SYSTEMS
 532 JPTDS COOLING



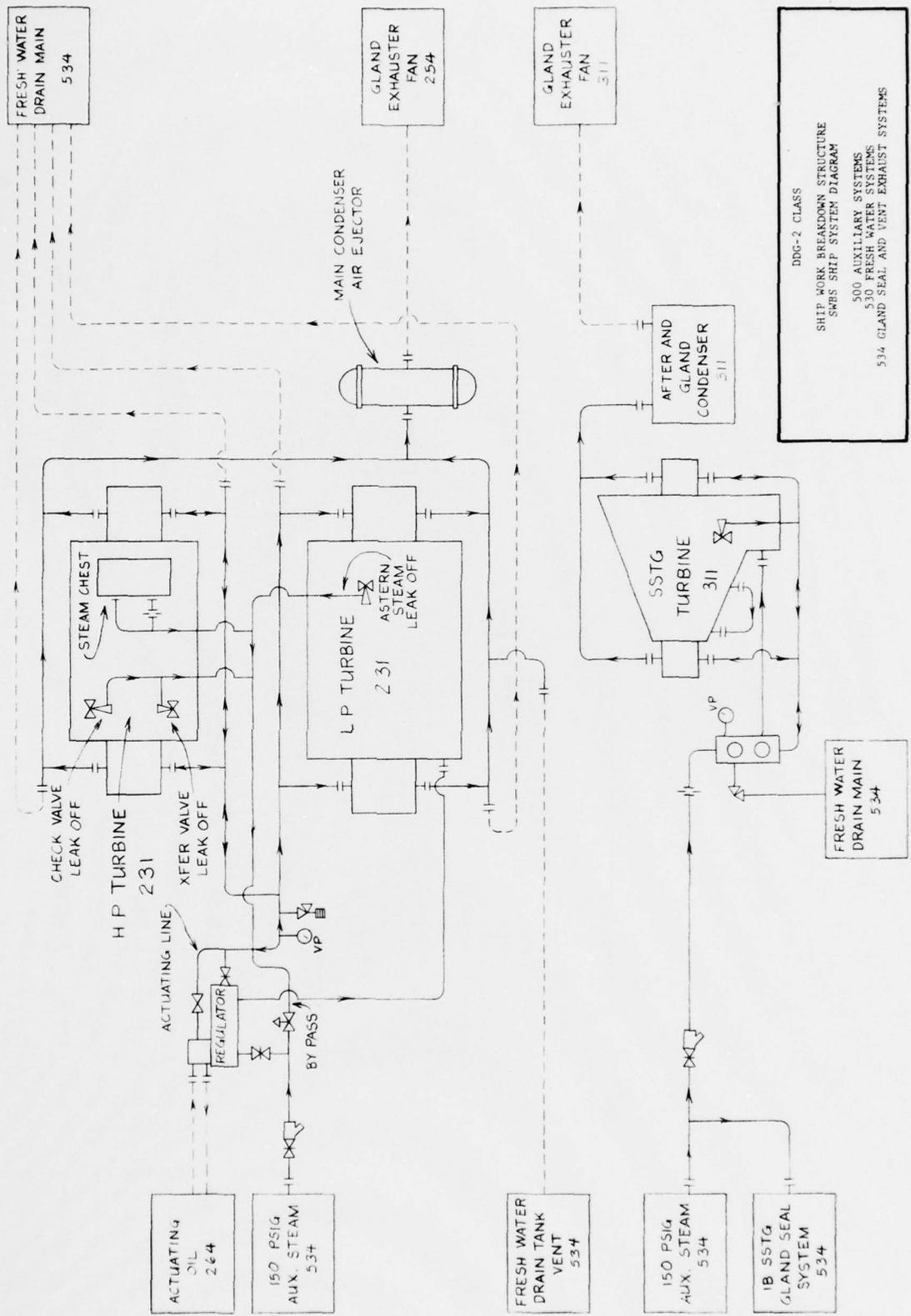


INCLUDES ALL COMPONENTS MAKING UP THE AUXILIARY GLAND LEAK OFF SYSTEM CONSISTING OF PIPING FROM AUXILIARY TUBINES AND THE DFT VENT TO THE AUXILIARY GLAND CONDENSER AND THE EXHAUST PIPING FROM THE CONDENSERS TO THE ATMOSPHERIC VENT TERMINAL.

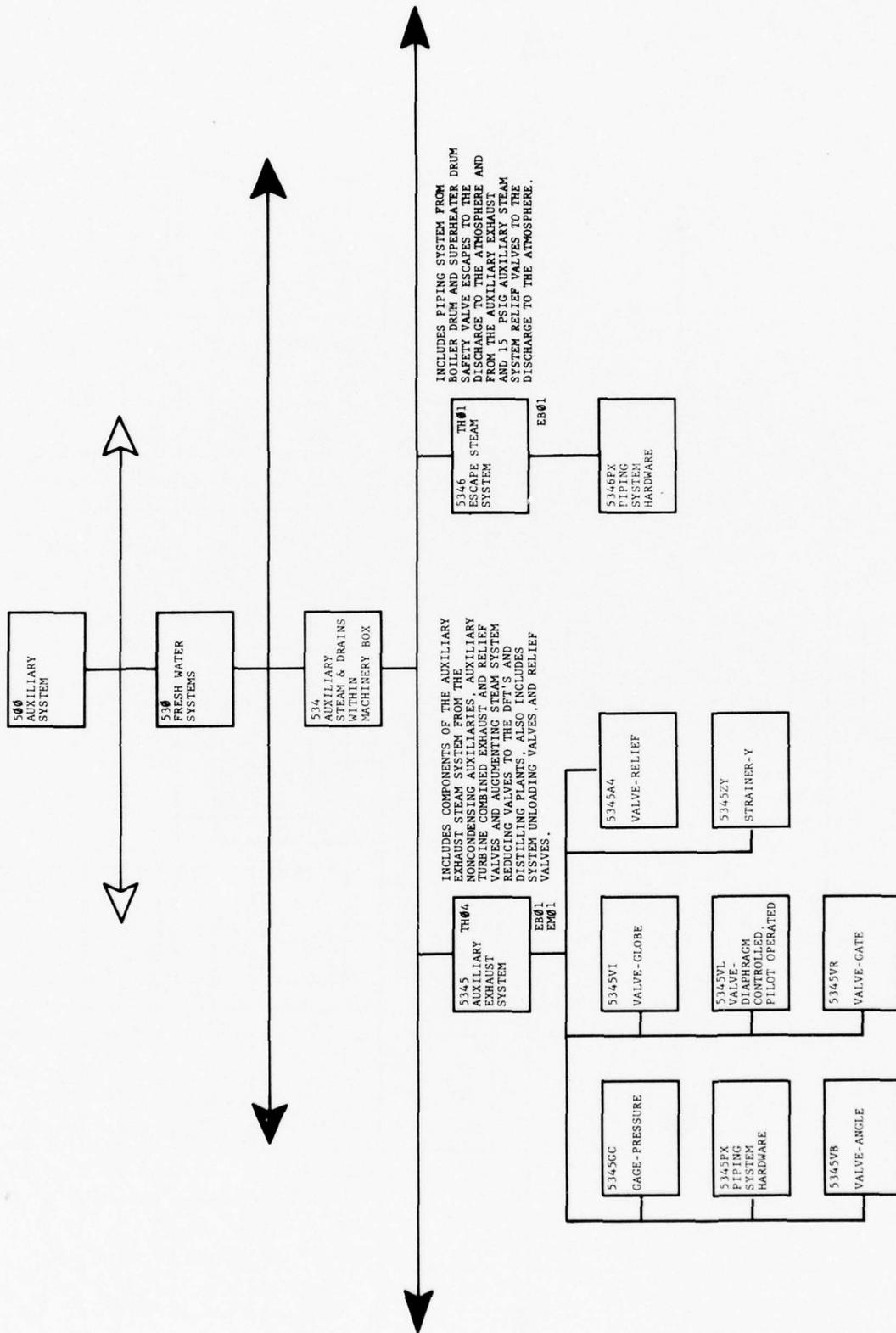
DOES NOT INCLUDE:
AUXILIARY GLAND CONDENSER (254)
AUXILIARY GLAND EXHAUST FAN (254)

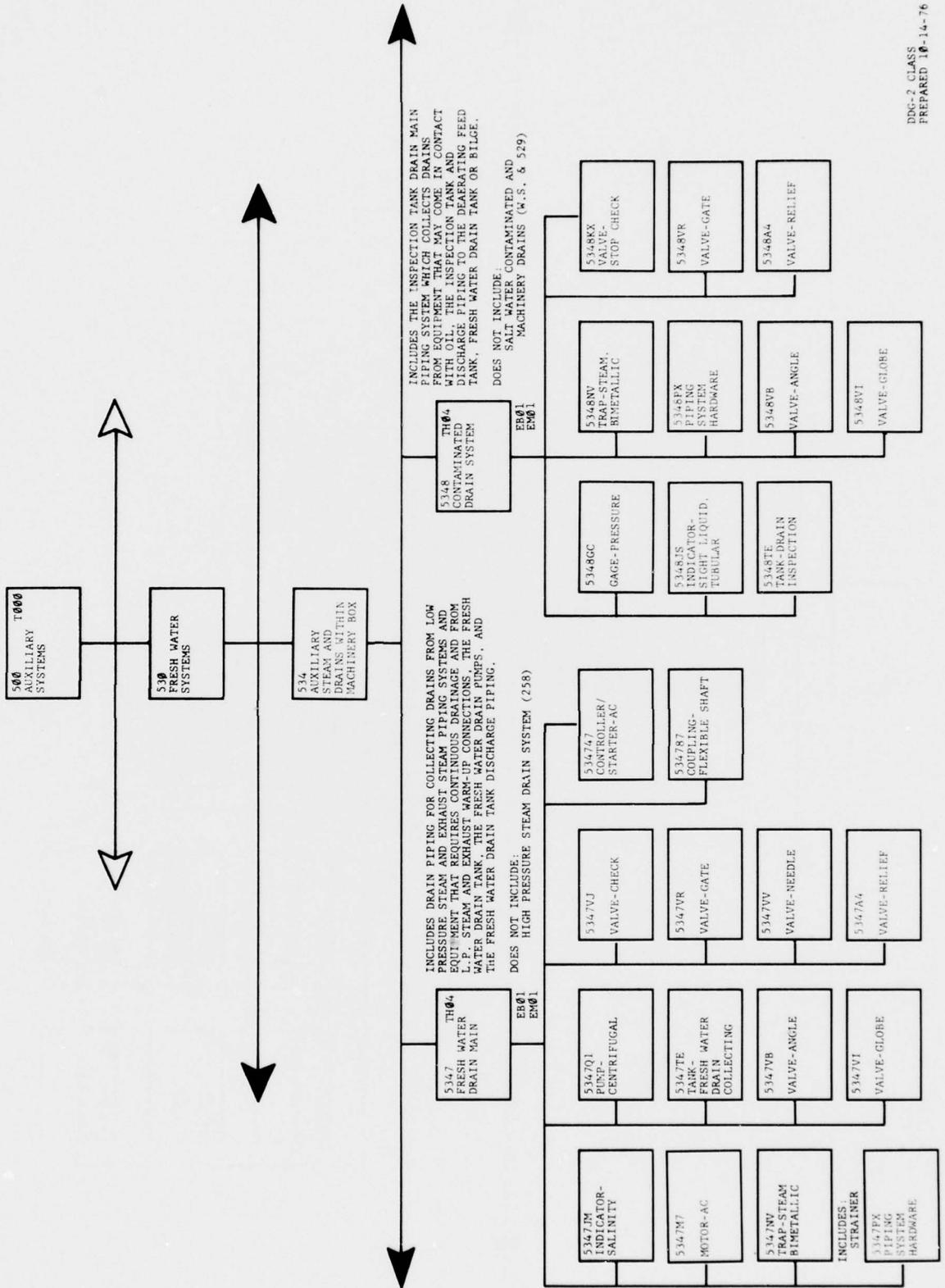
INCLUDES SYSTEMS PIPING FROM THE 150 PSIG AUXILIARY STEAM LINE MAKING UP THE MAIN AND SSG GLAND SEAL SYSTEMS, VENT PIPING TO THE GLAND EXHAUST CONDENSERS AND DRAIN PIPING TO THE FRESH WATER DRAIN MAIN.

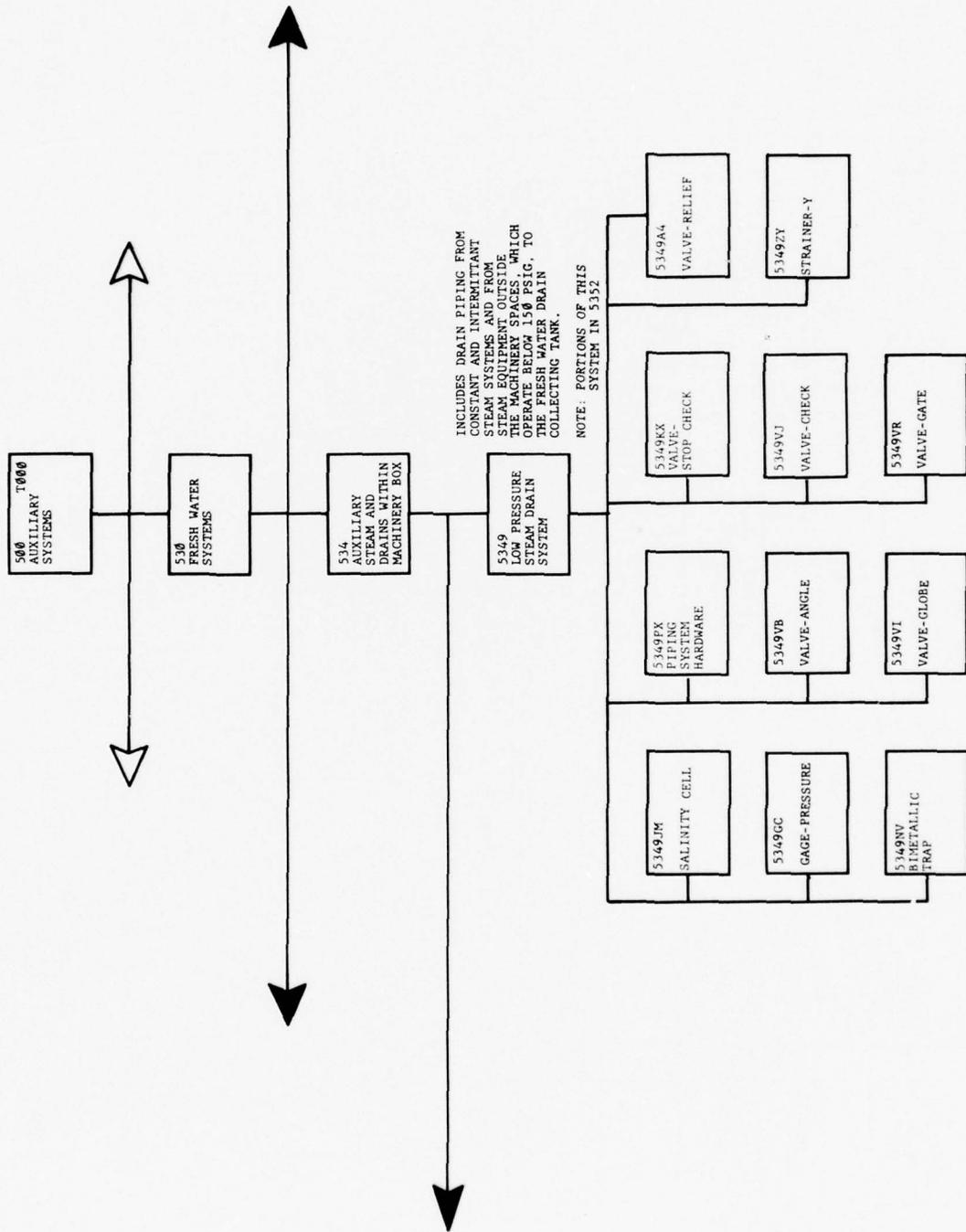
DOES NOT INCLUDE:
MAIN AND SSG GLAND EXHAUST FAN AND PIPING (254)
MAIN AND SSG AIR EJECTOR (254)

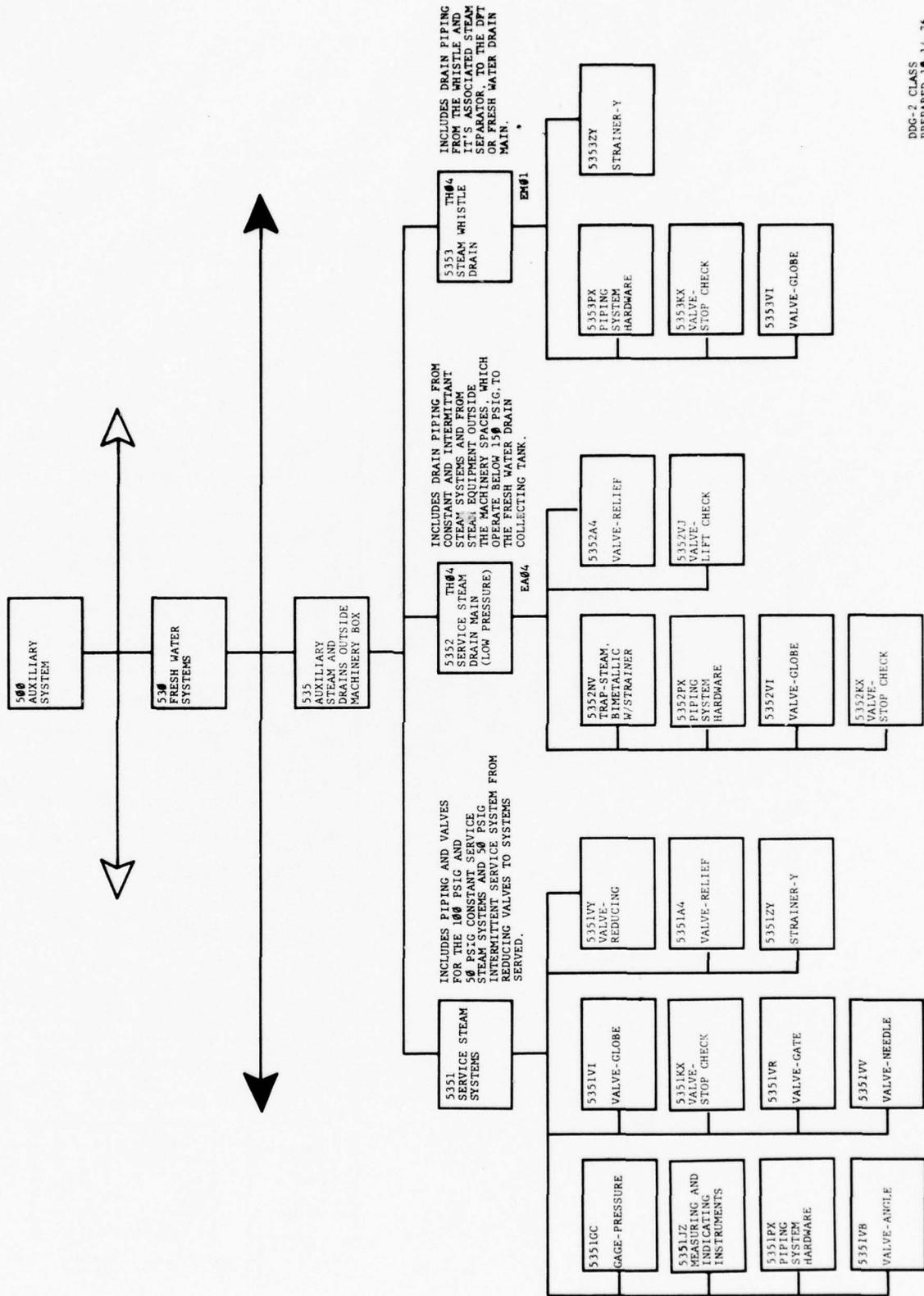


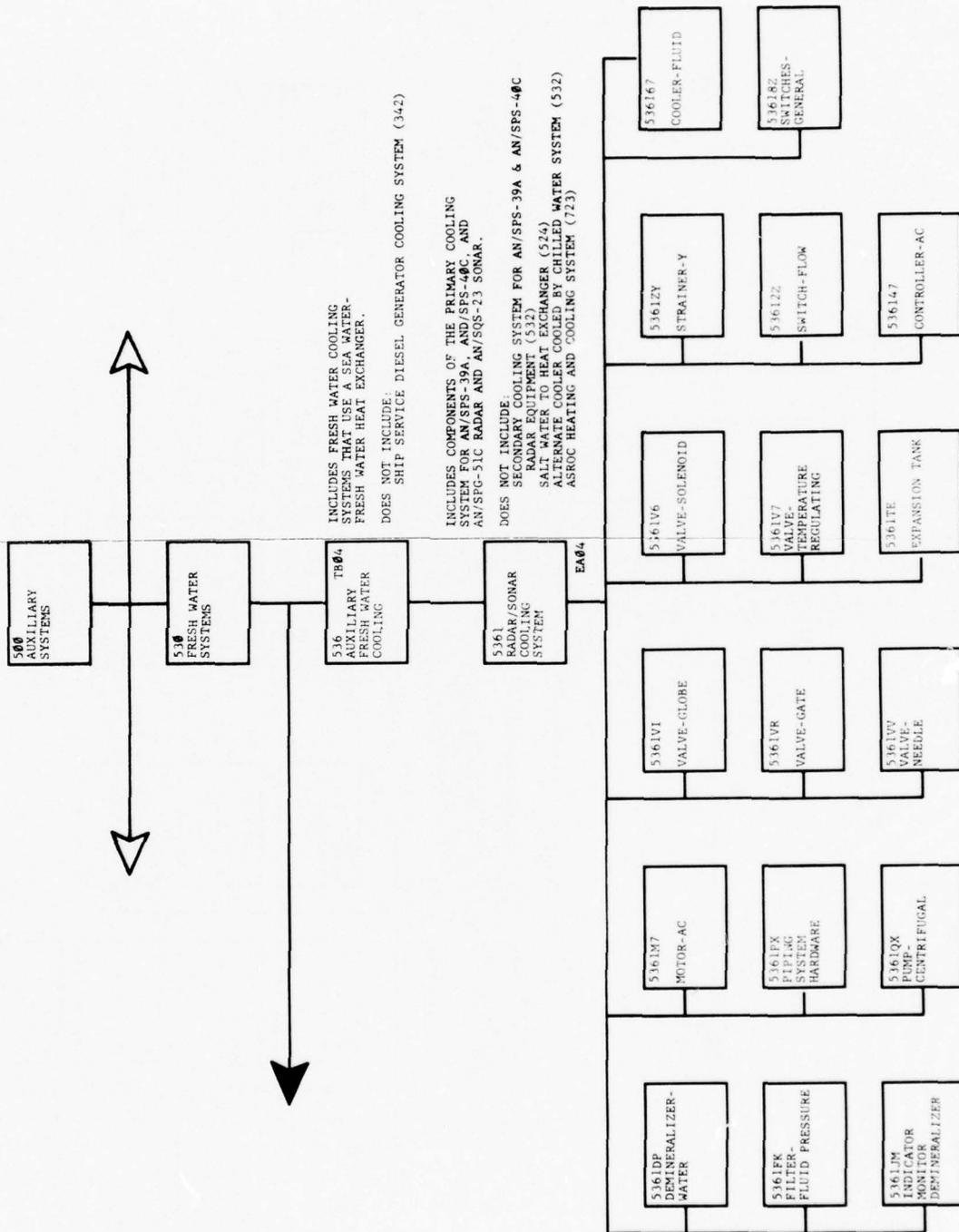
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 500 AUXILIARY SYSTEMS
 530 FRESH WATER SYSTEMS
 534 GLAND SEAL AND VENT EXHAUST SYSTEMS







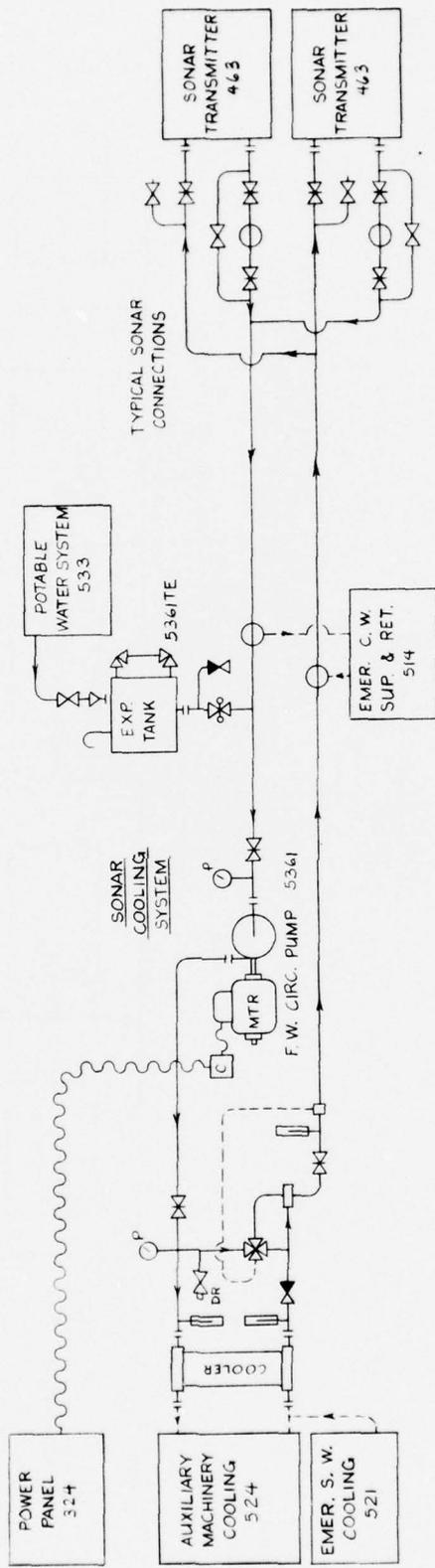




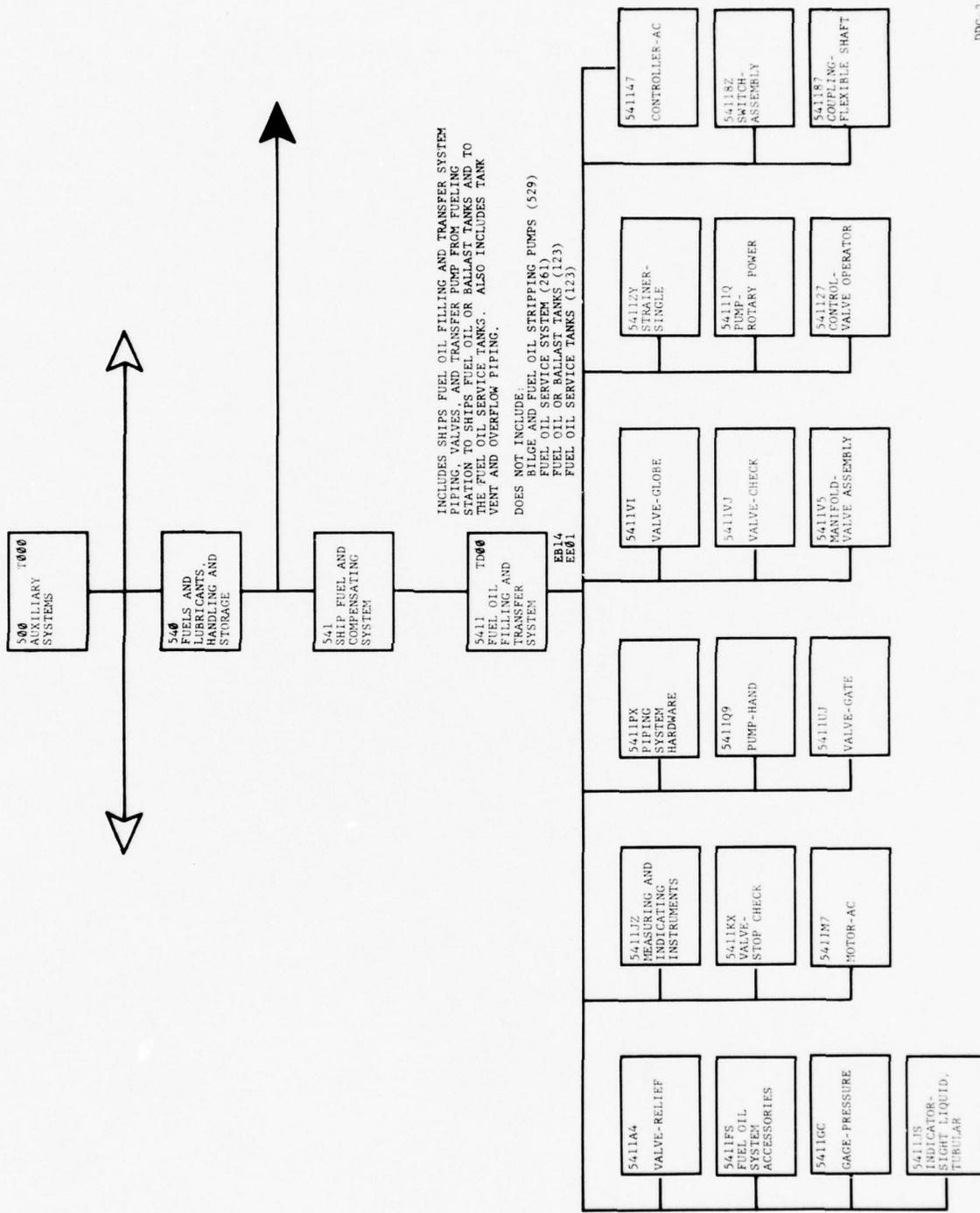
INCLUDES FRESH WATER COOLING SYSTEMS THAT USE A SEA WATER-FRESH WATER HEAT EXCHANGER.
 DOES NOT INCLUDE:
 SHIP SERVICE DIESEL GENERATOR COOLING SYSTEM (342)

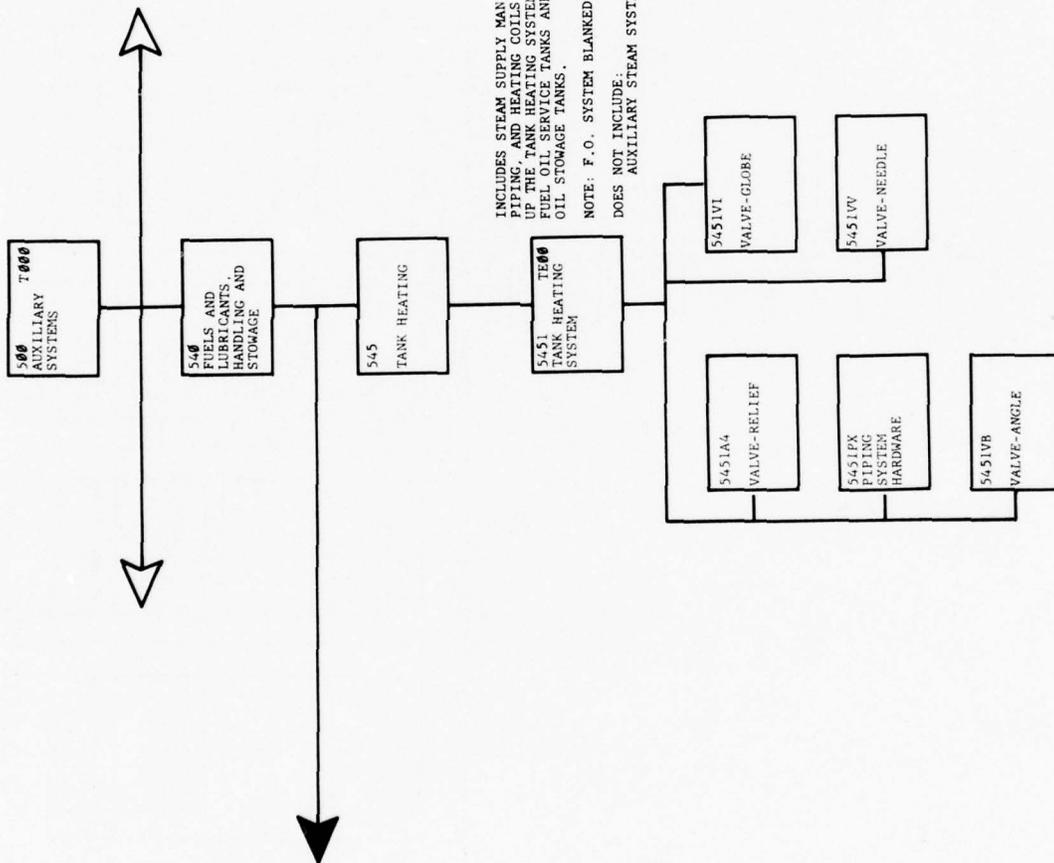
INCLUDES COMPONENTS OF THE PRIMARY COOLING SYSTEM FOR AN/SPS-39A, AND/SPS-40C, AND AN/SPG-51C RADAR AND AN/SQS-23 SONAR.

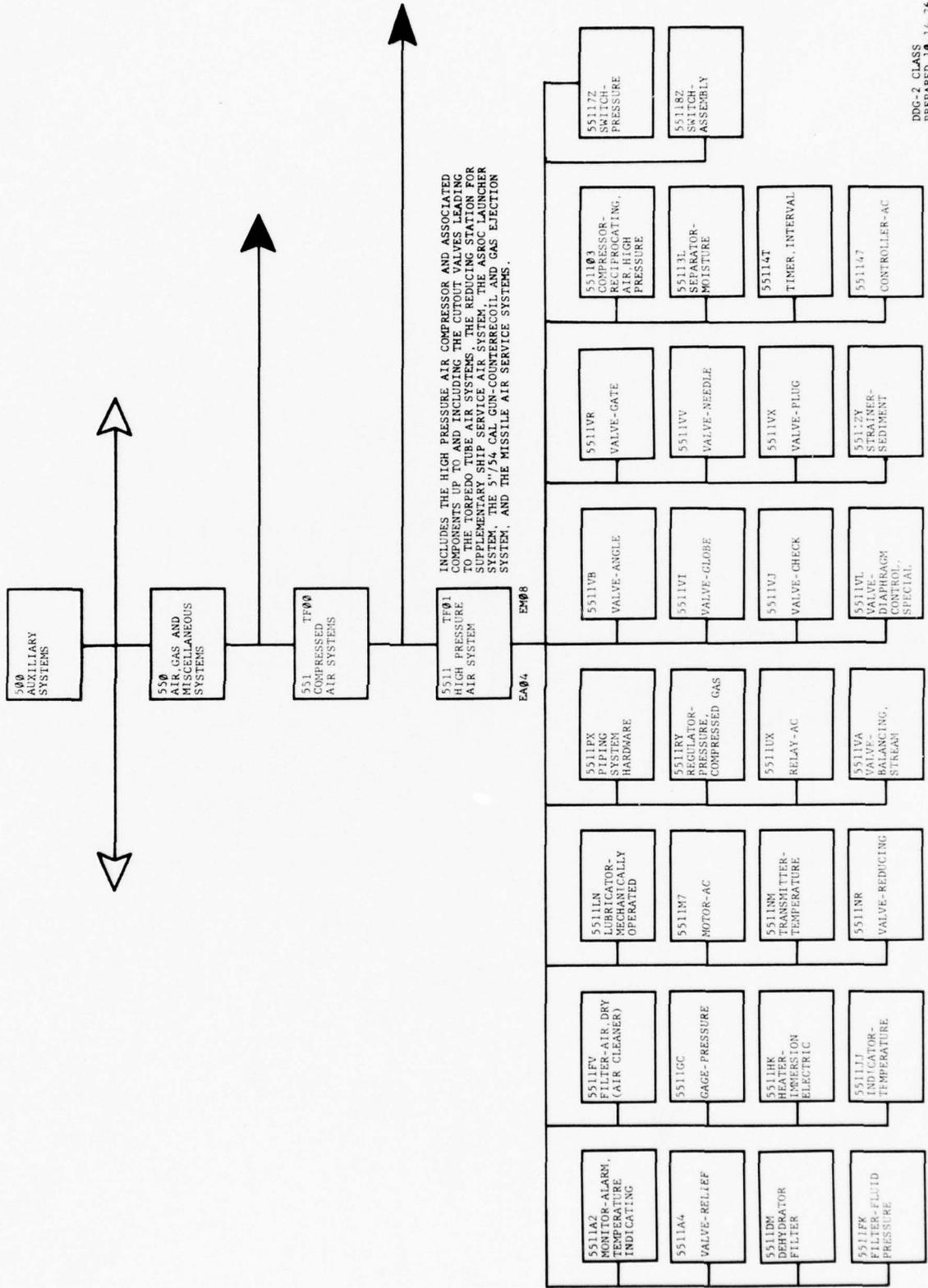
DOES NOT INCLUDE:
 SECONDARY COOLING SYSTEM FOR AN/SPS-39A & AN/SPS-40C
 RADAR/SQUID/SONAR (532)
 SALTY WATER HEAT EXCHANGER (574)
 ALTERNATE COOLER COOLED BY CHILLED WATER SYSTEM (532)
 ASROC HEATING AND COOLING SYSTEM (723)



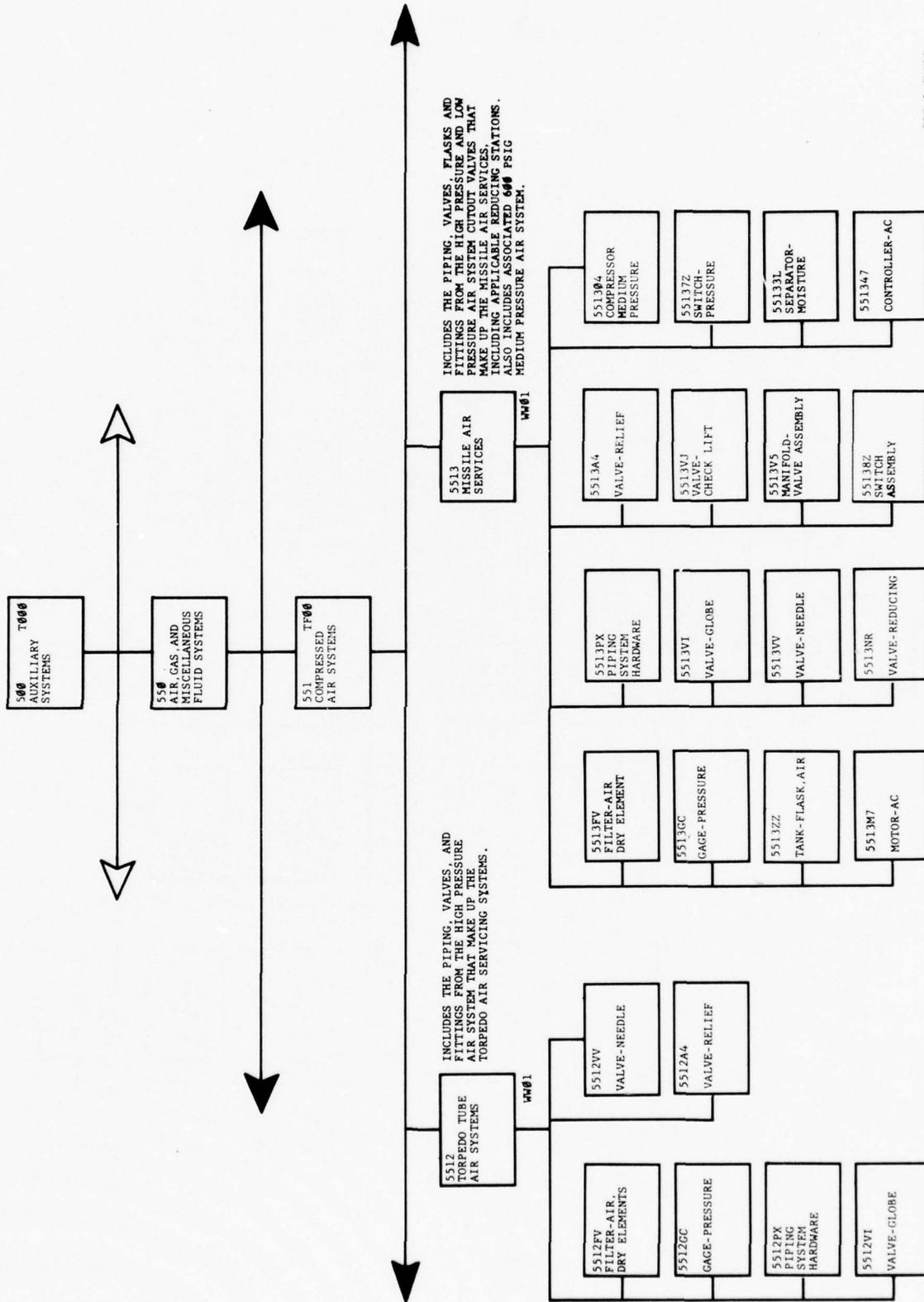
DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SWBS SHIP SYSTEM DIAGRAM
 500 AUXILIARY SYSTEMS
 530 FRESH WATER SYSTEMS
 536 SONAR COOLING

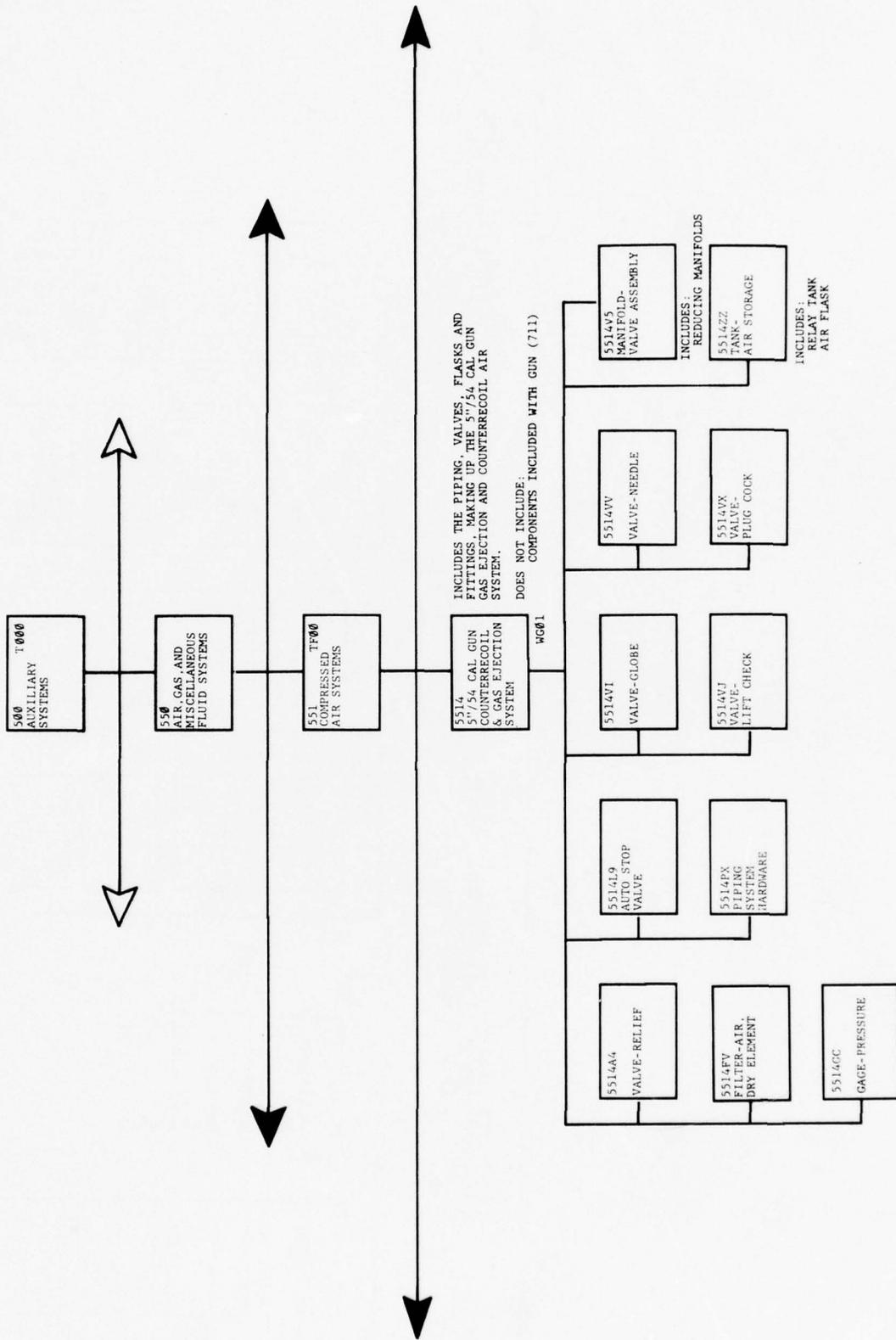


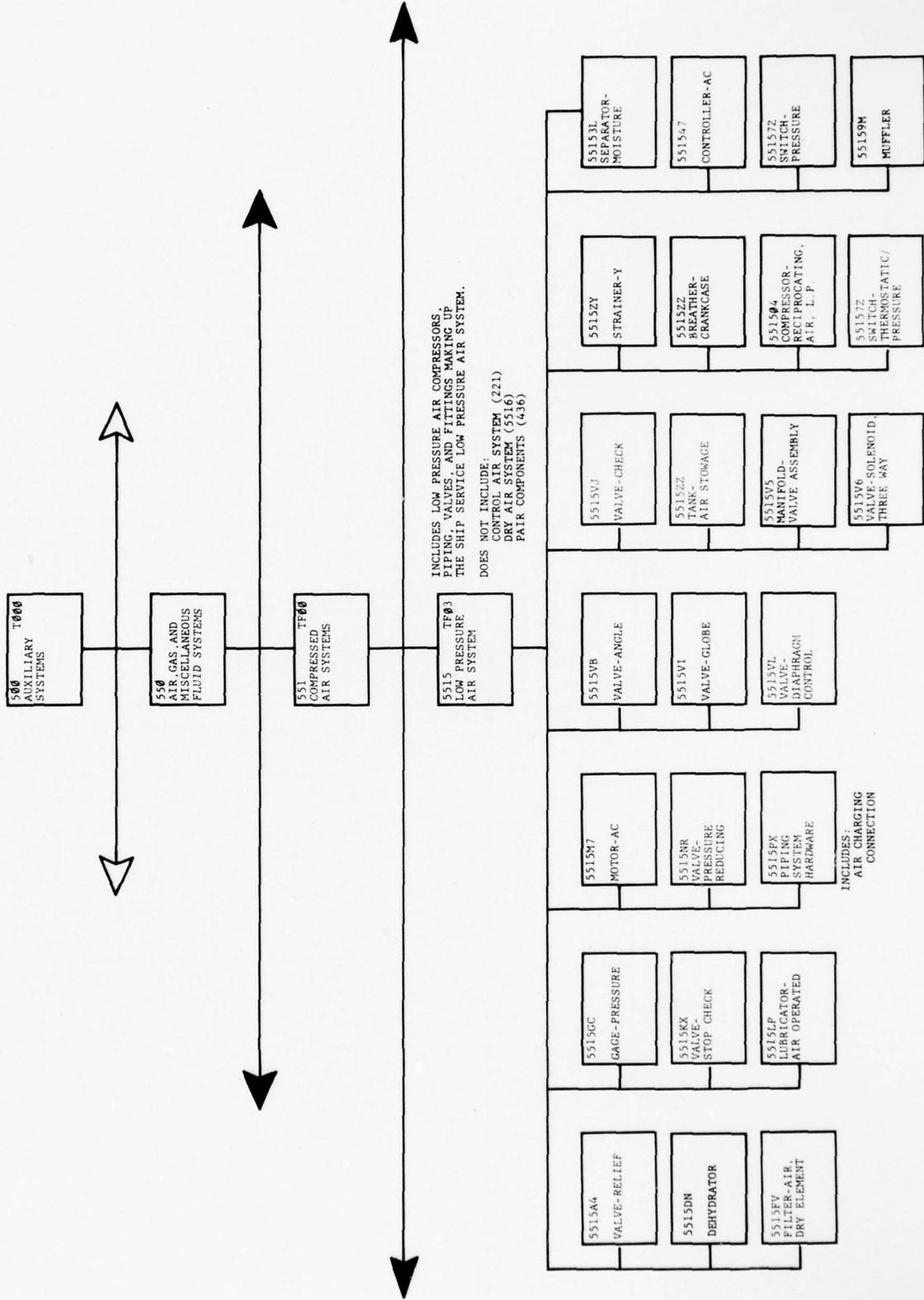


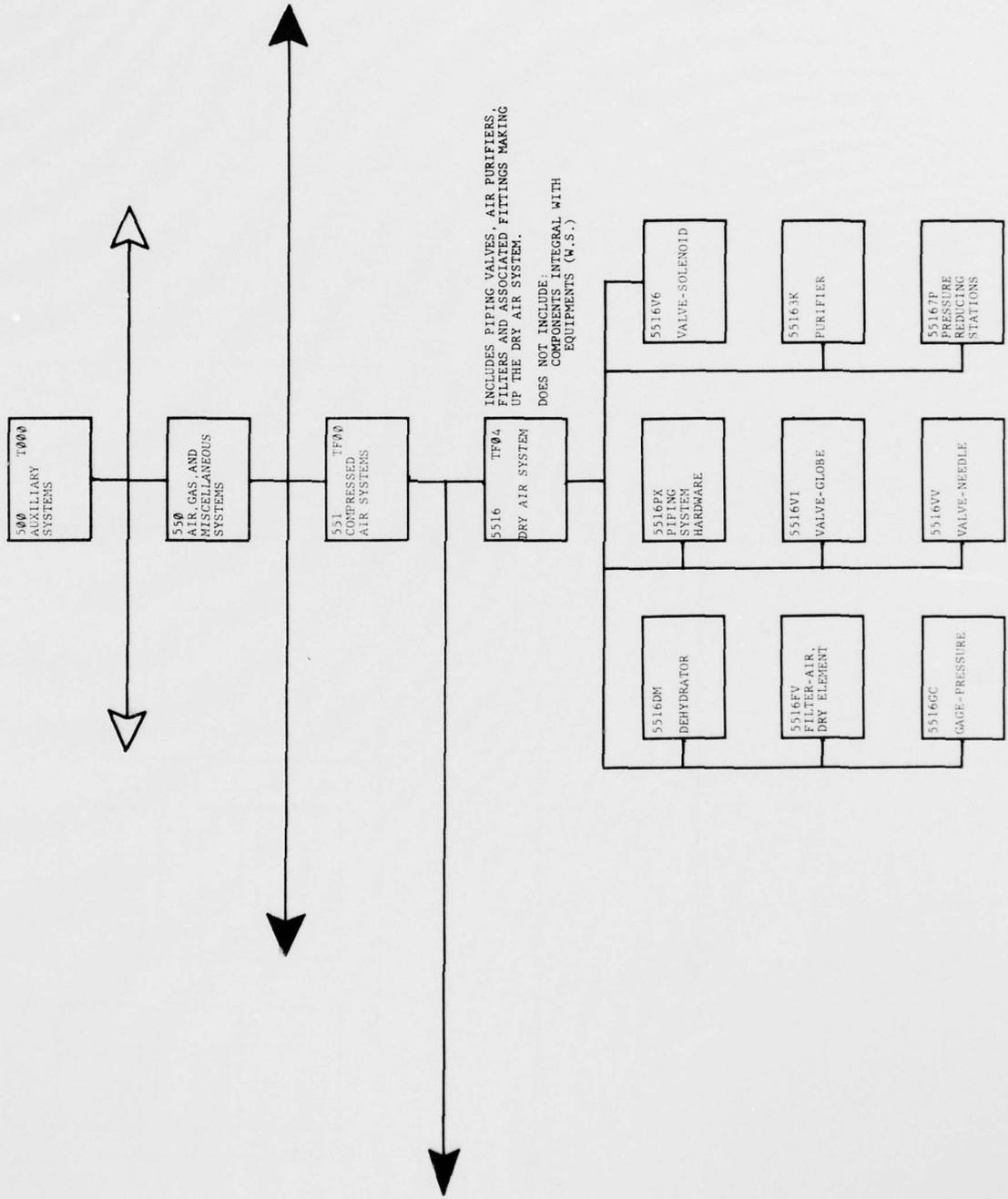


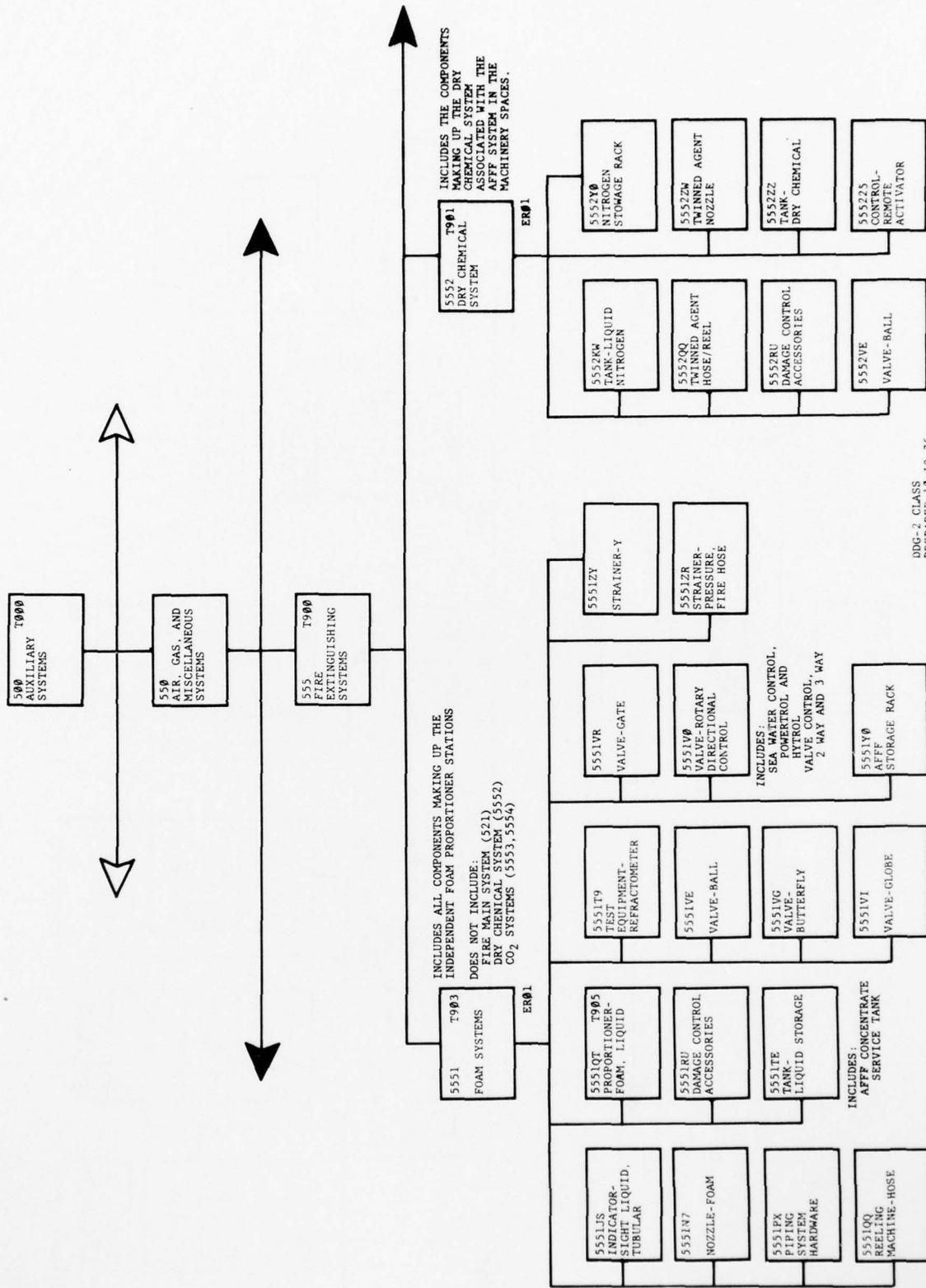
DDG-2 CLASS
PREPARED 10-14-76



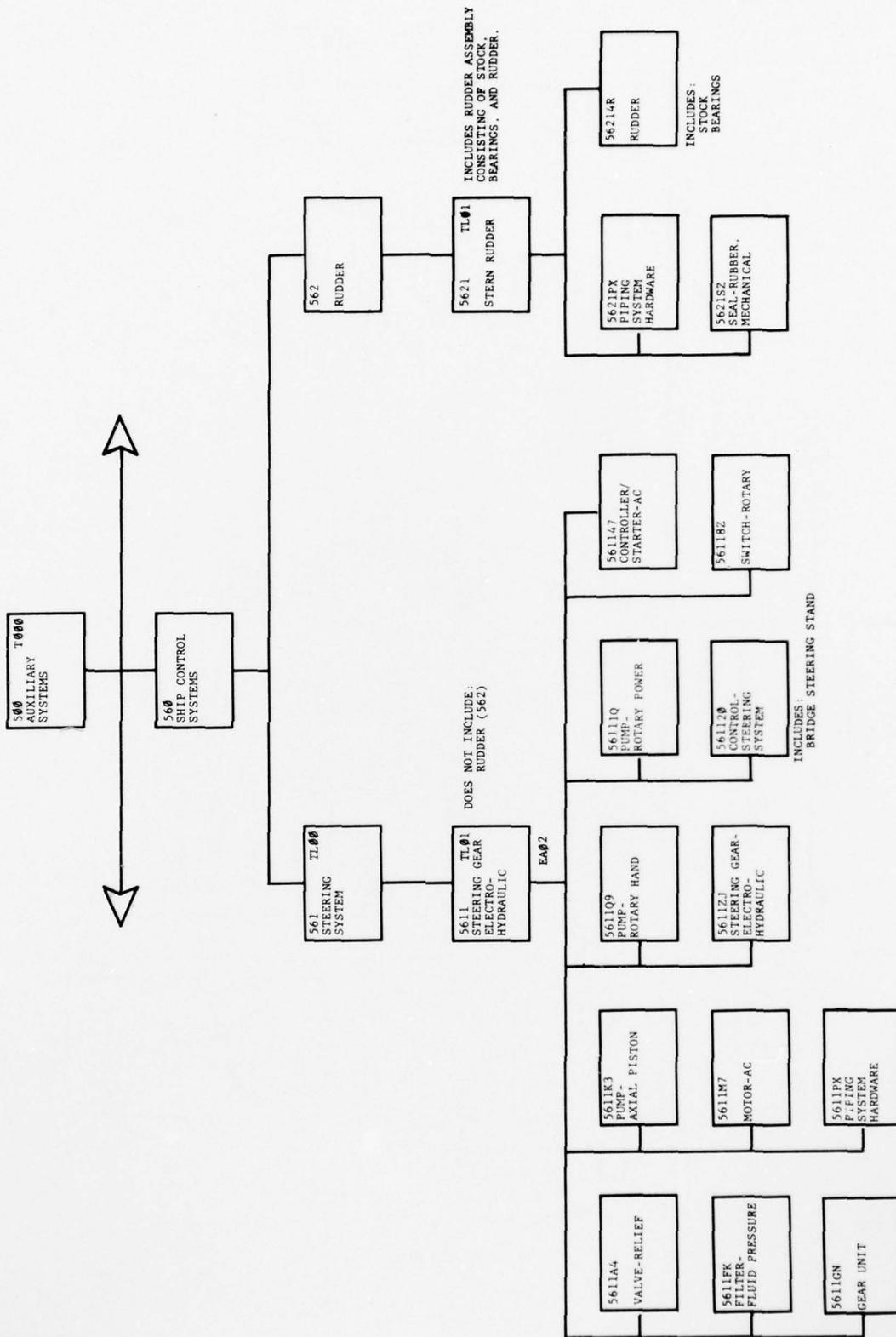


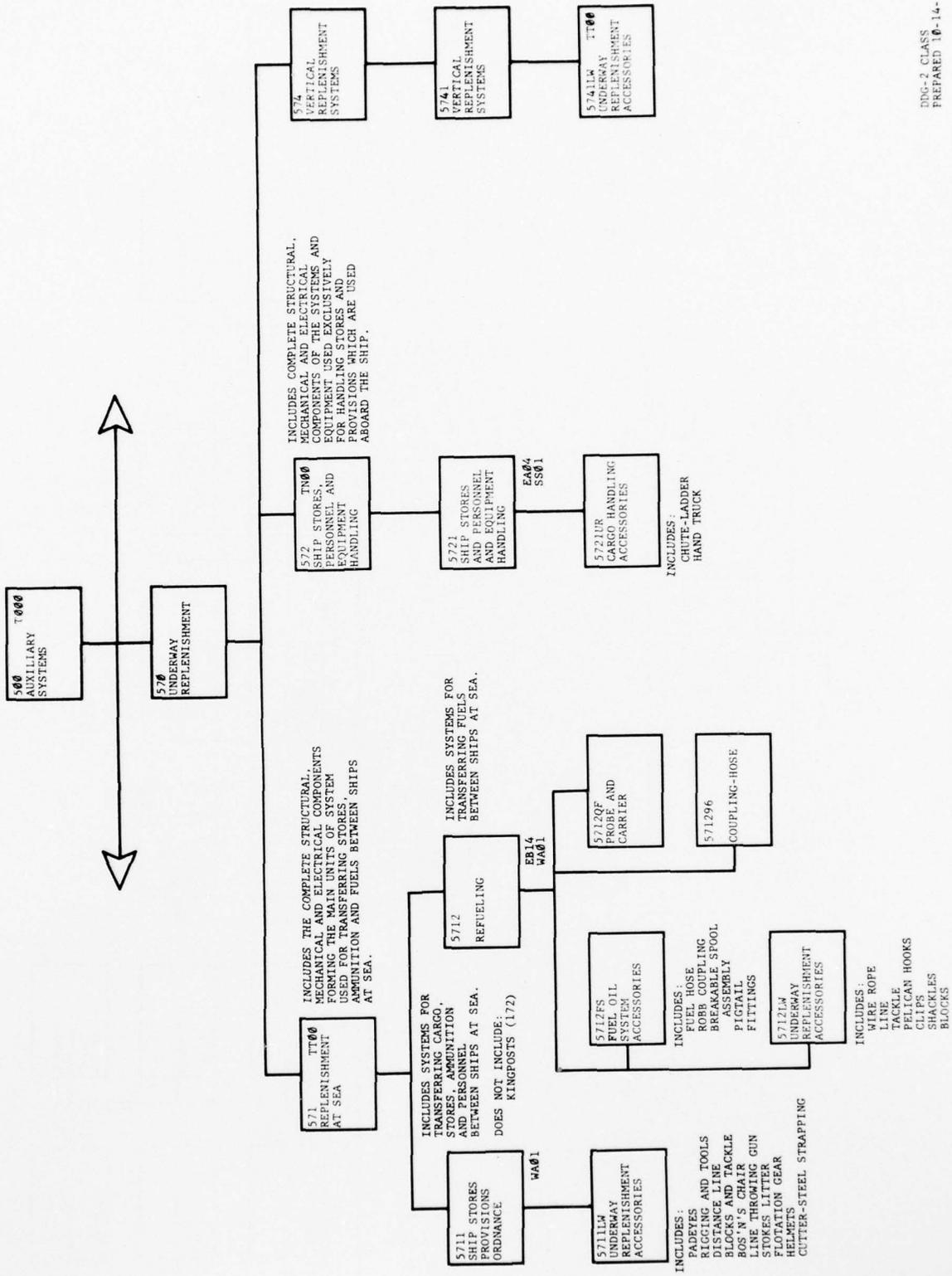


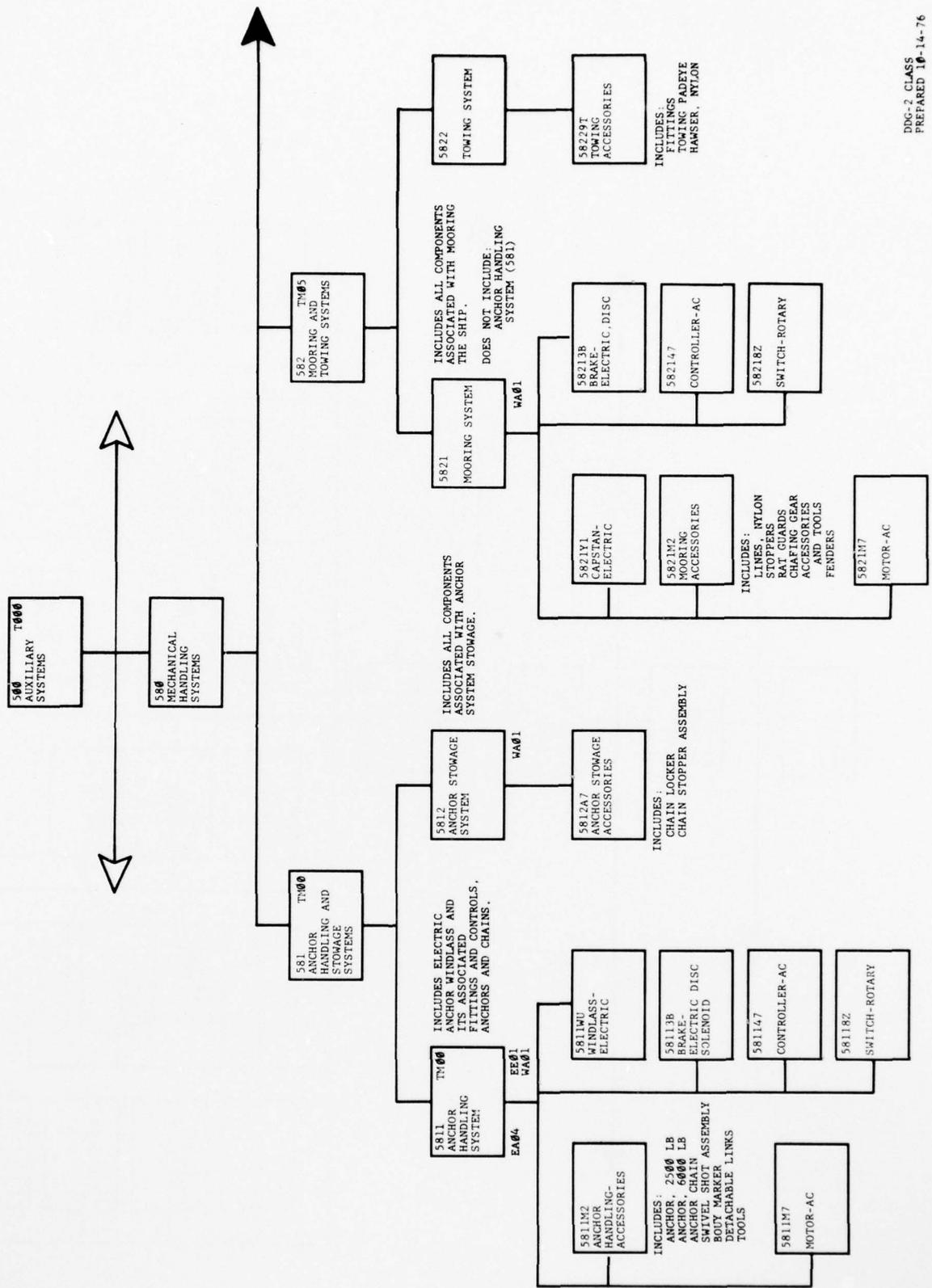


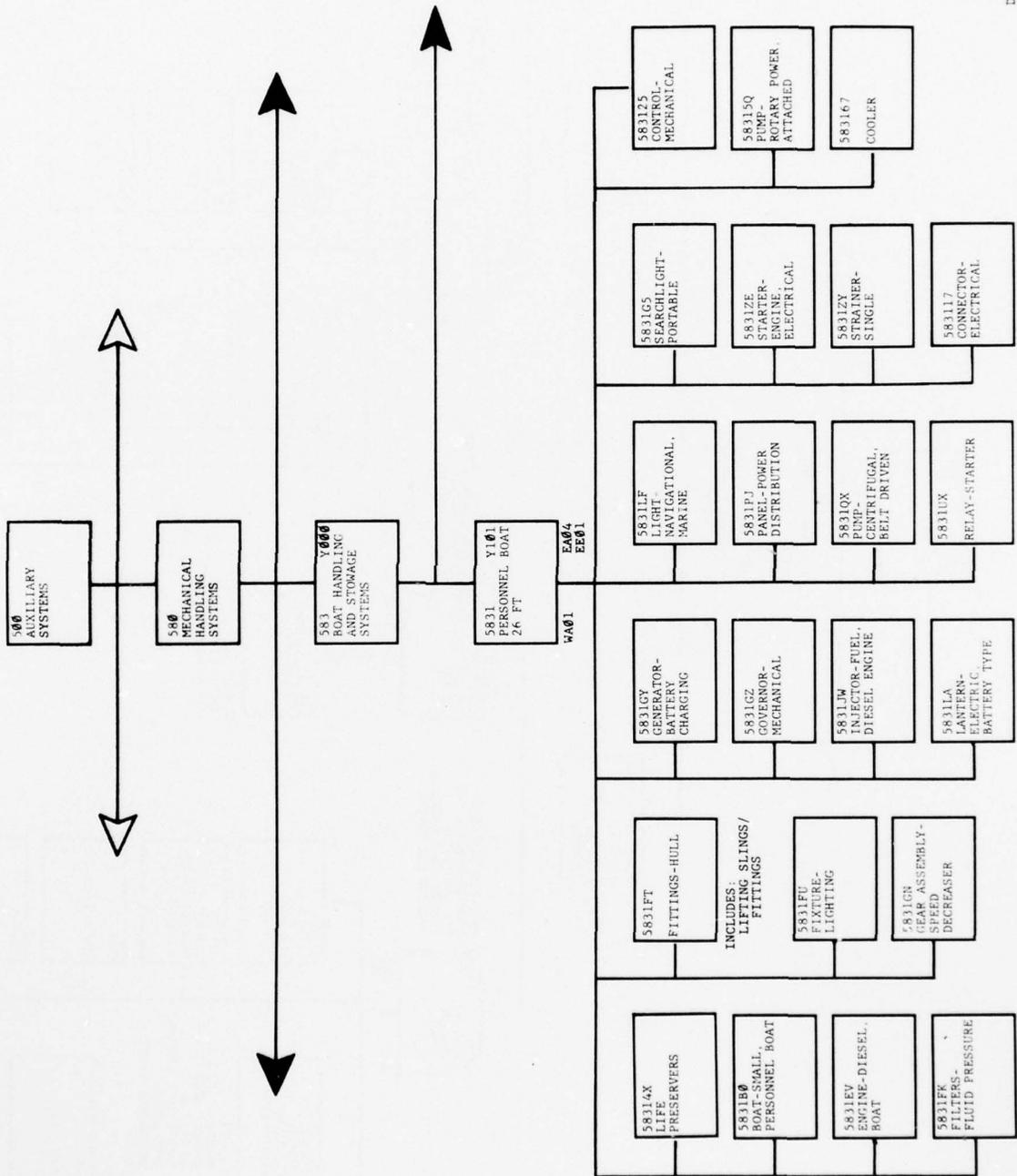


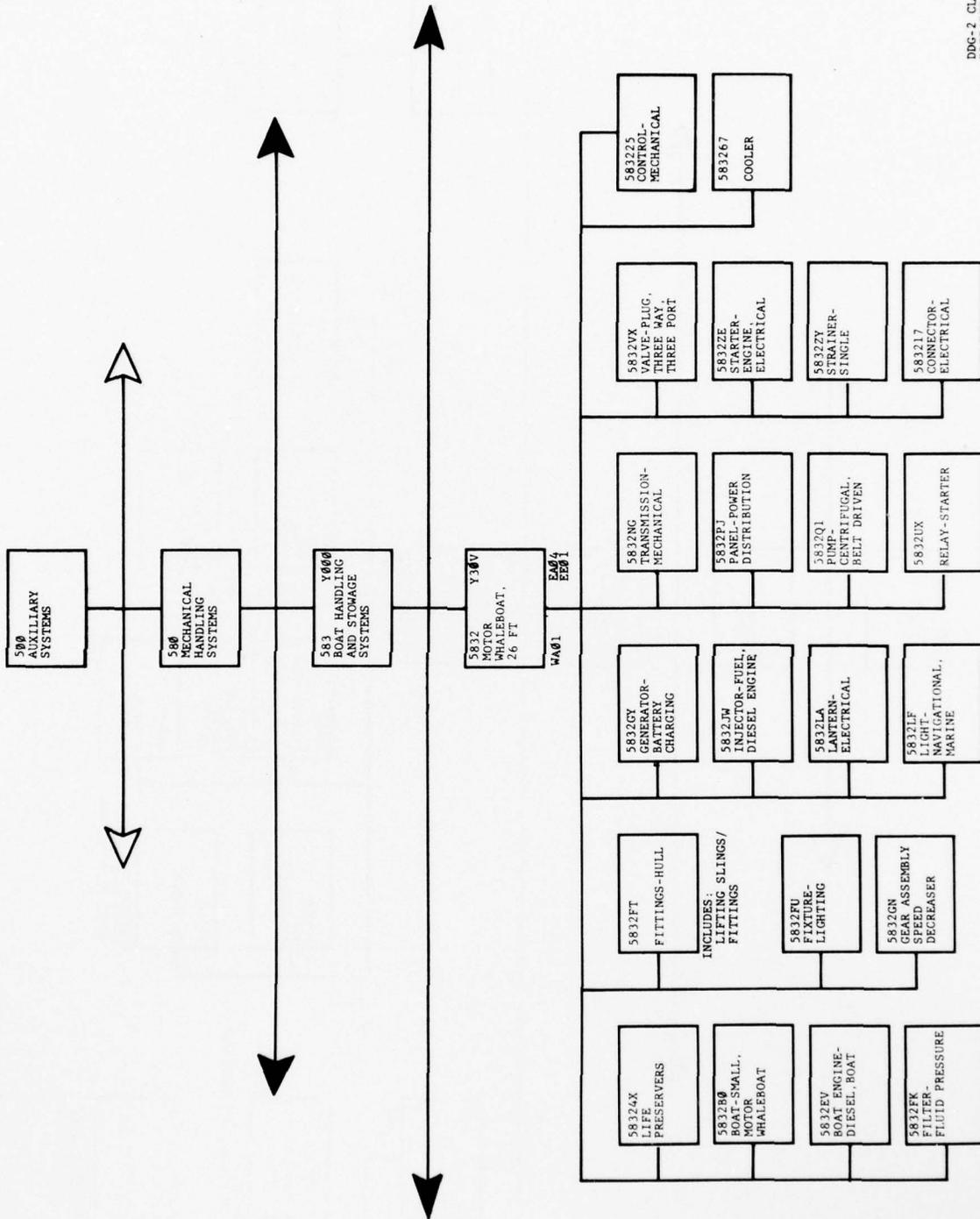
DDG-2 CLASS
PREPARED 10-19-76

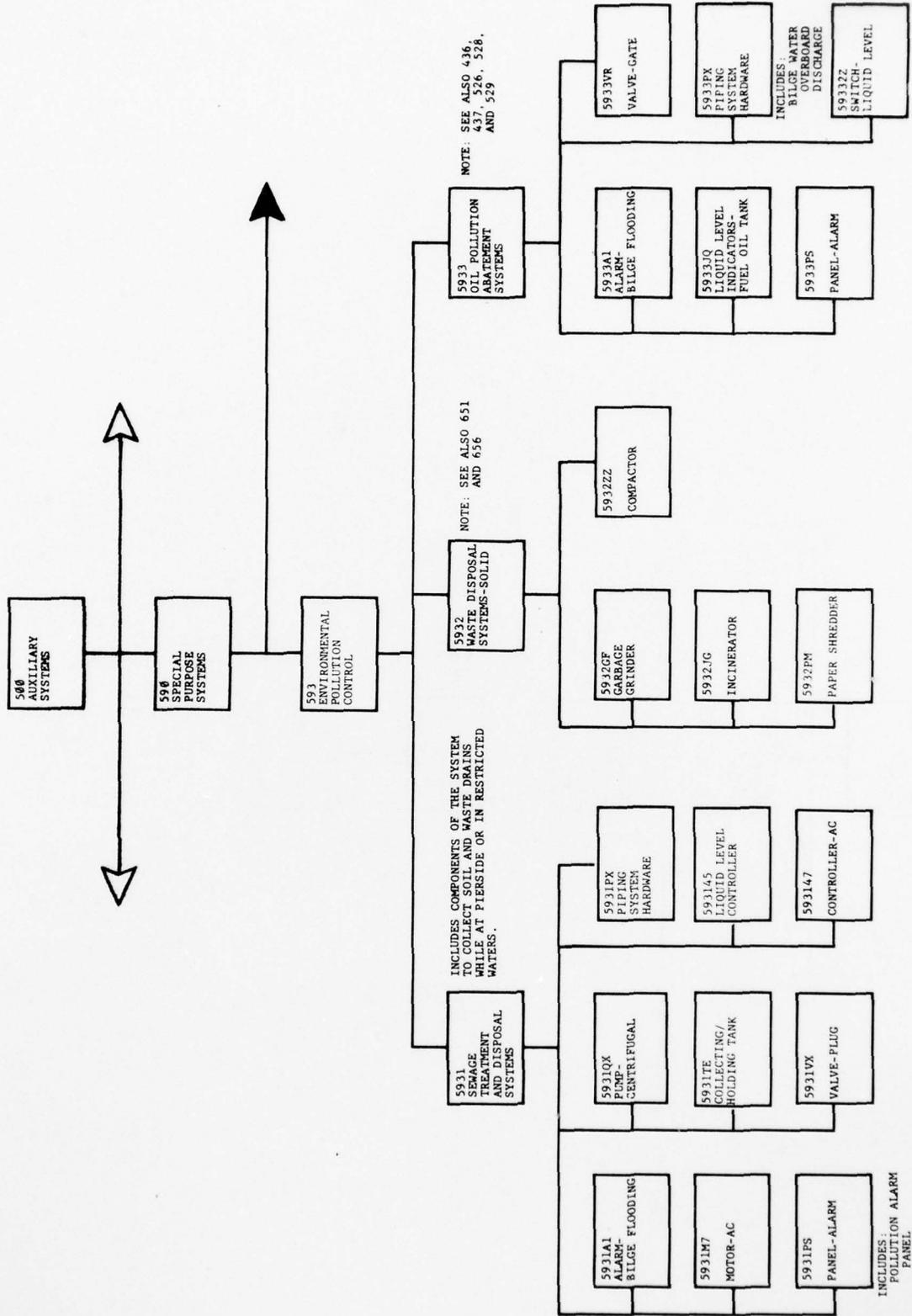


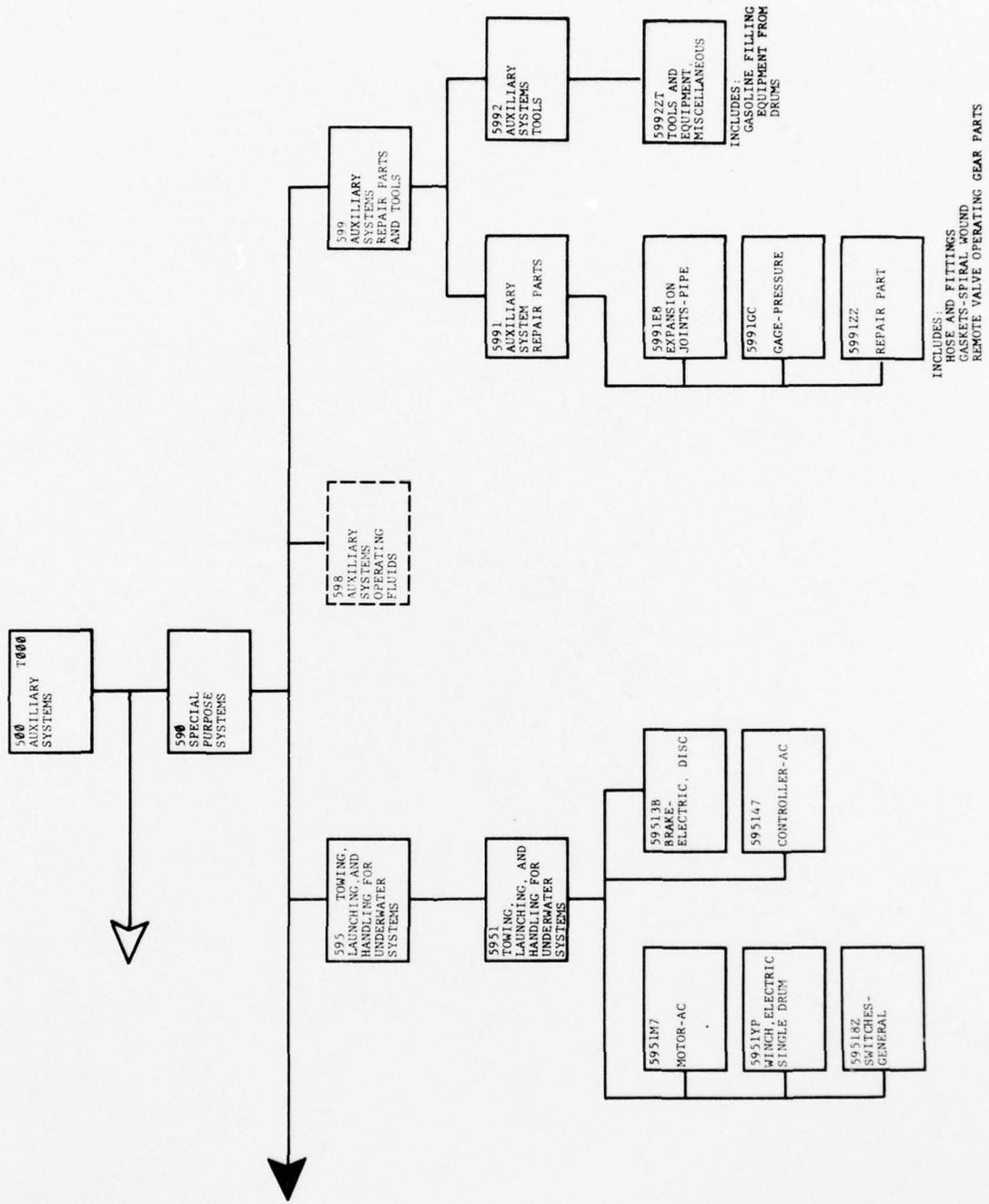


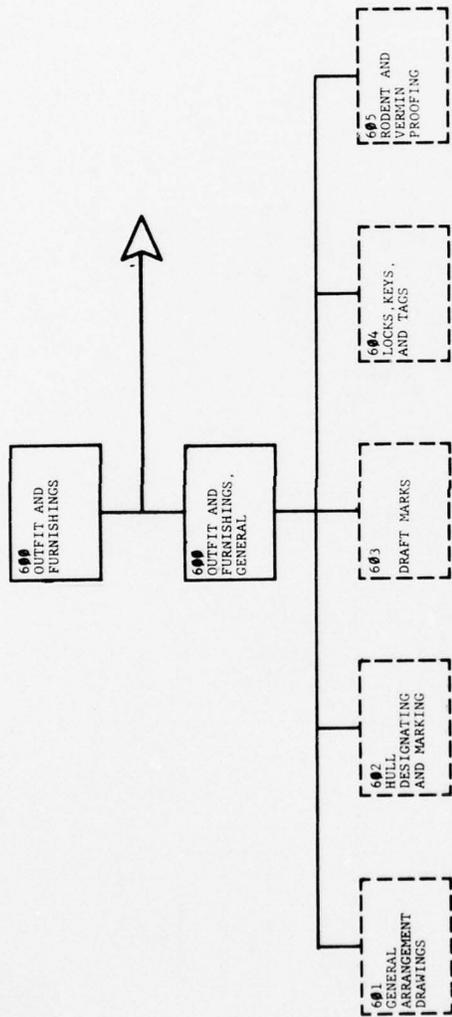


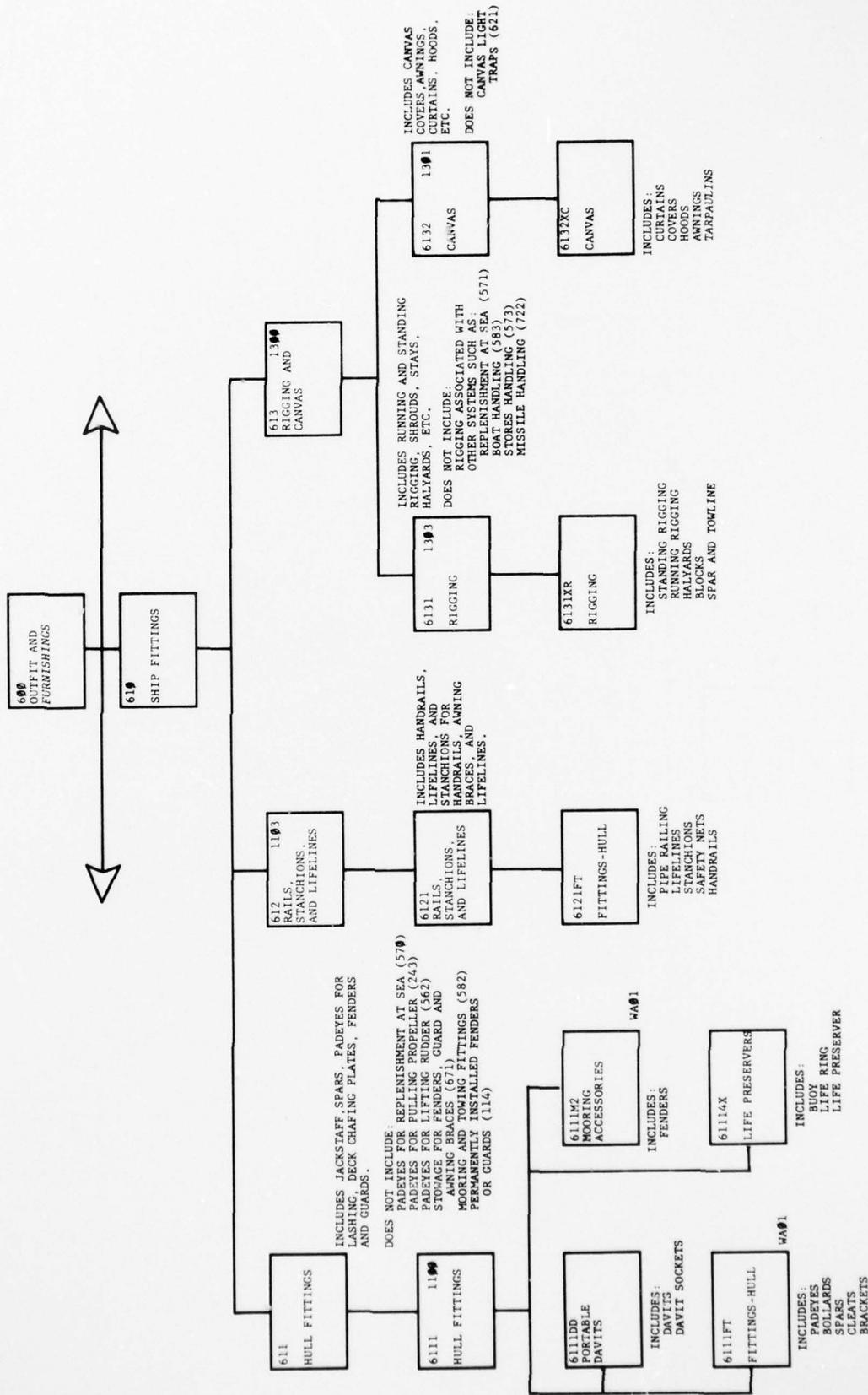












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ARINC RESEARCH CORP ANNAPOLIS MD
SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR D--ETC(U)
NOV 76

F/G 13/10

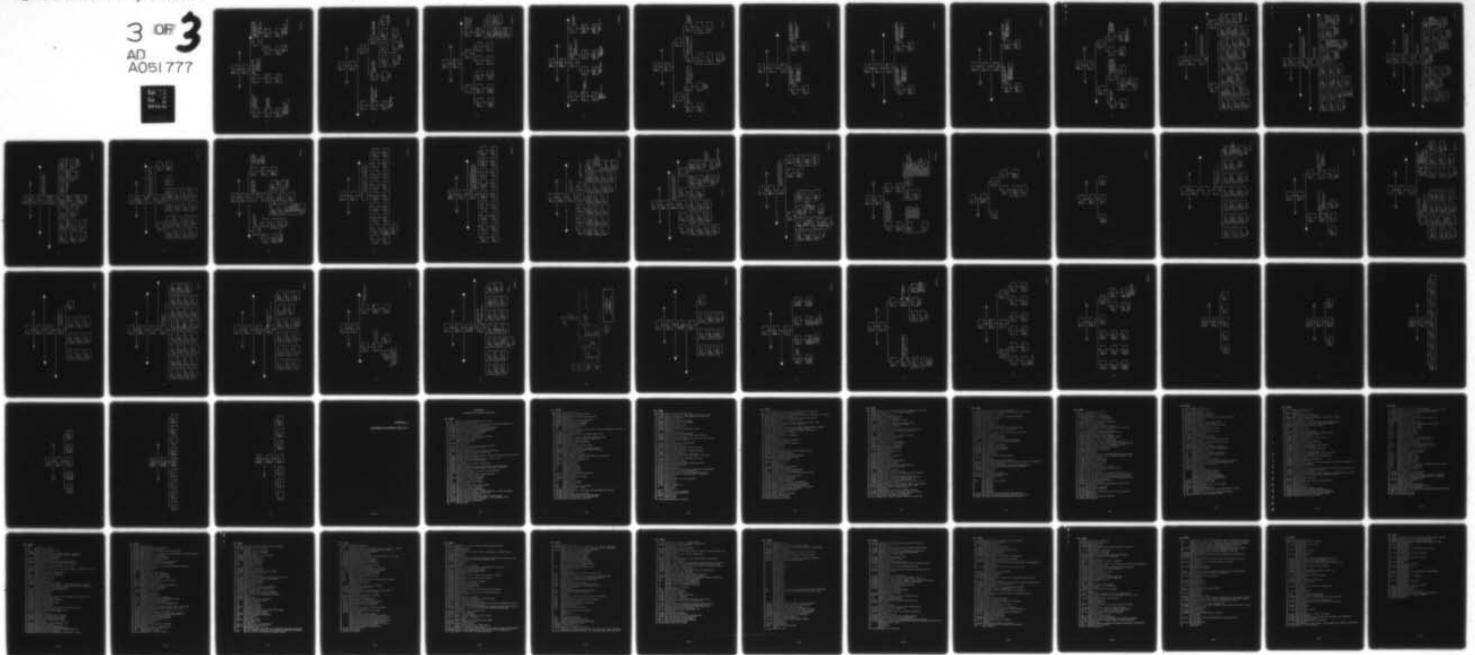
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NL

UNCLASSIFIED

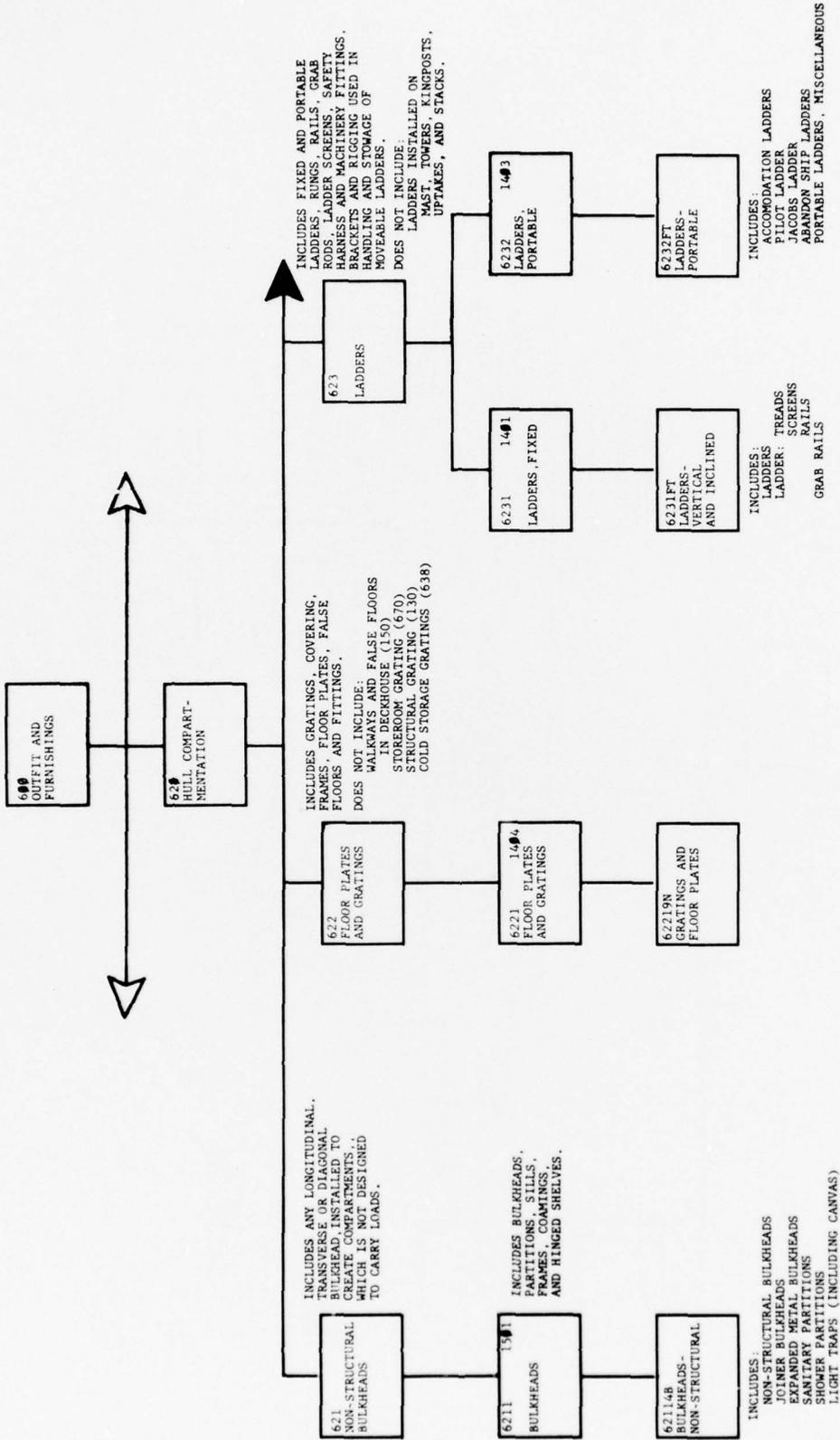
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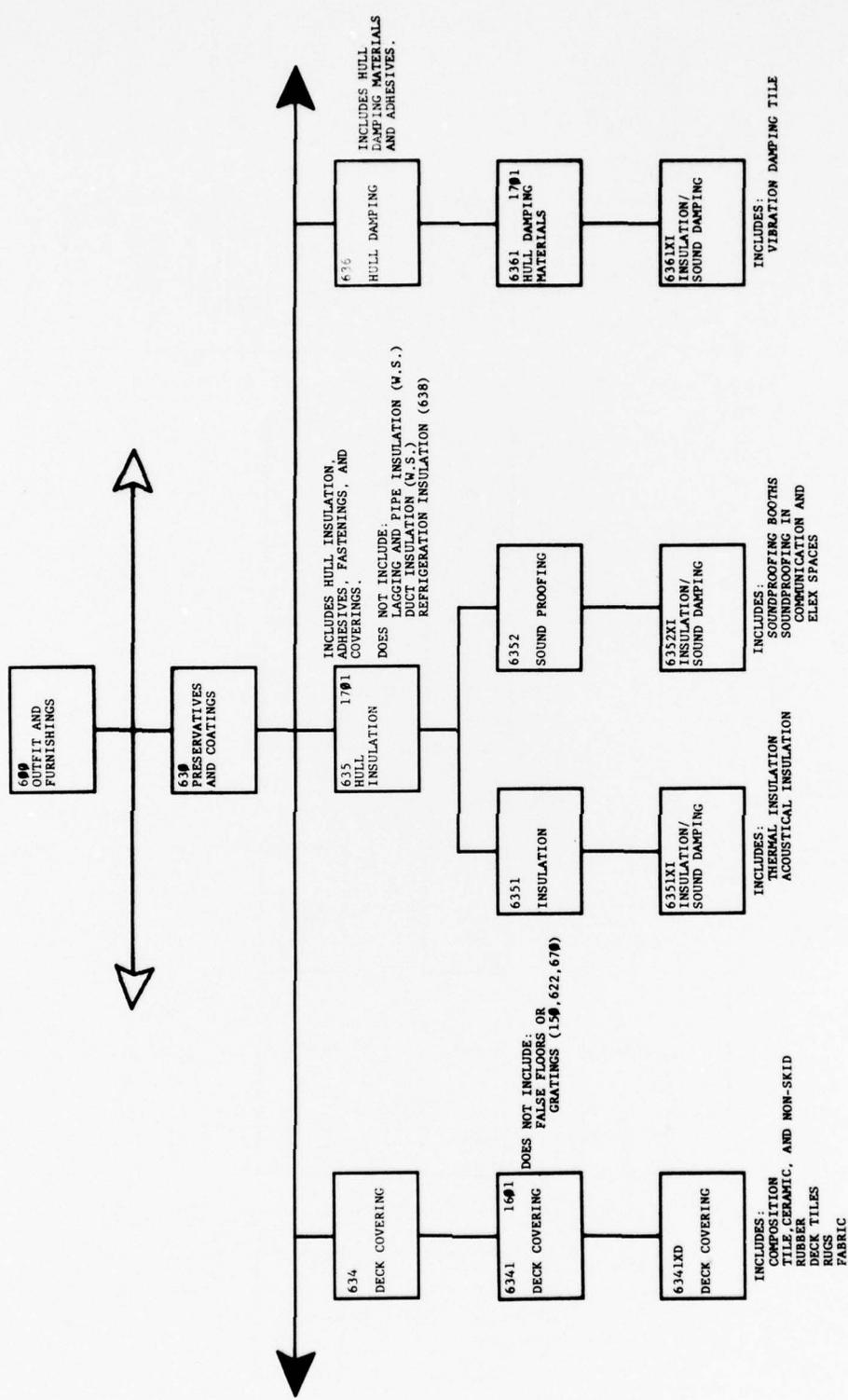
3 OF 3
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A051 777

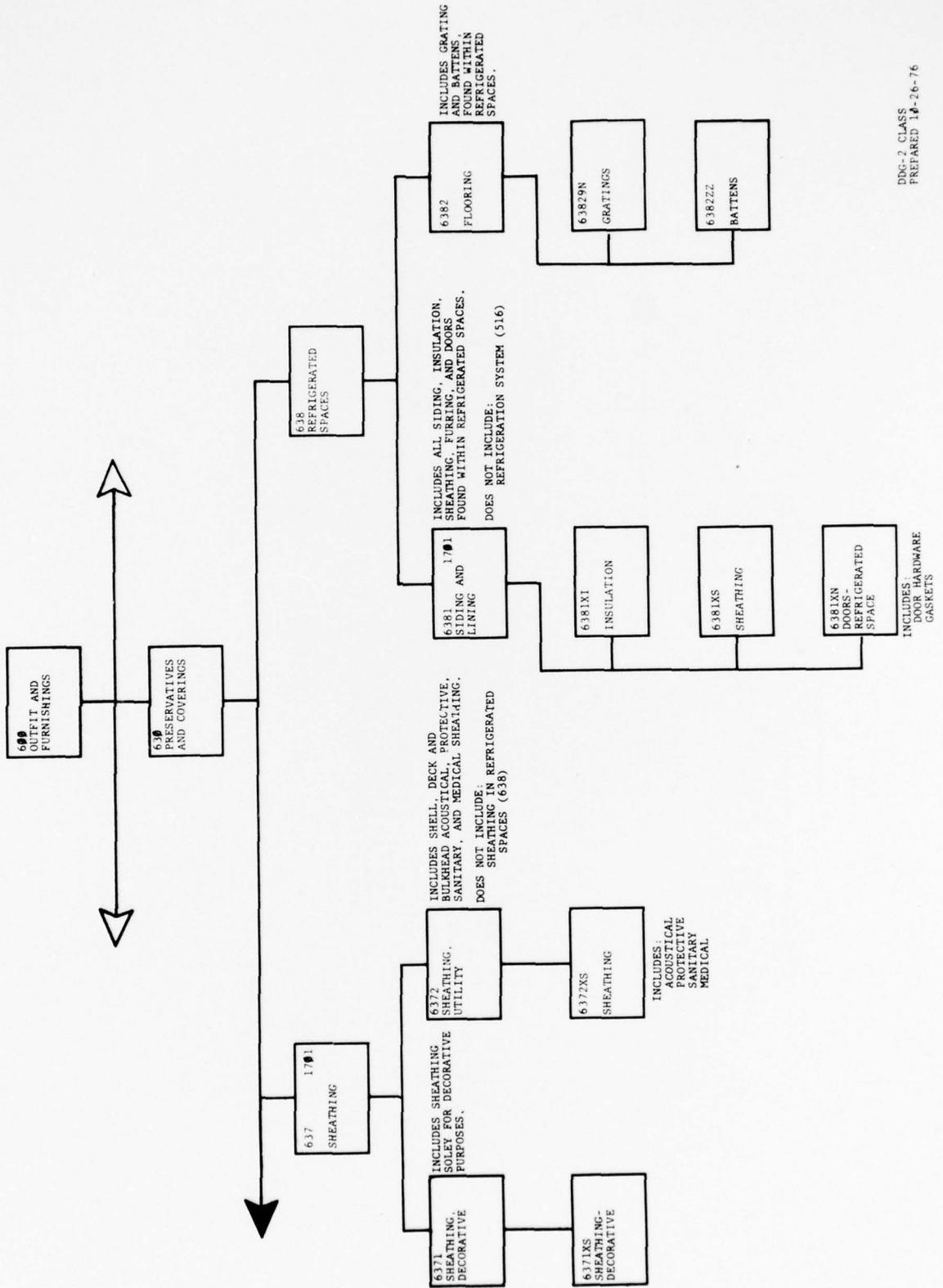


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DATE
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5-78
DDC

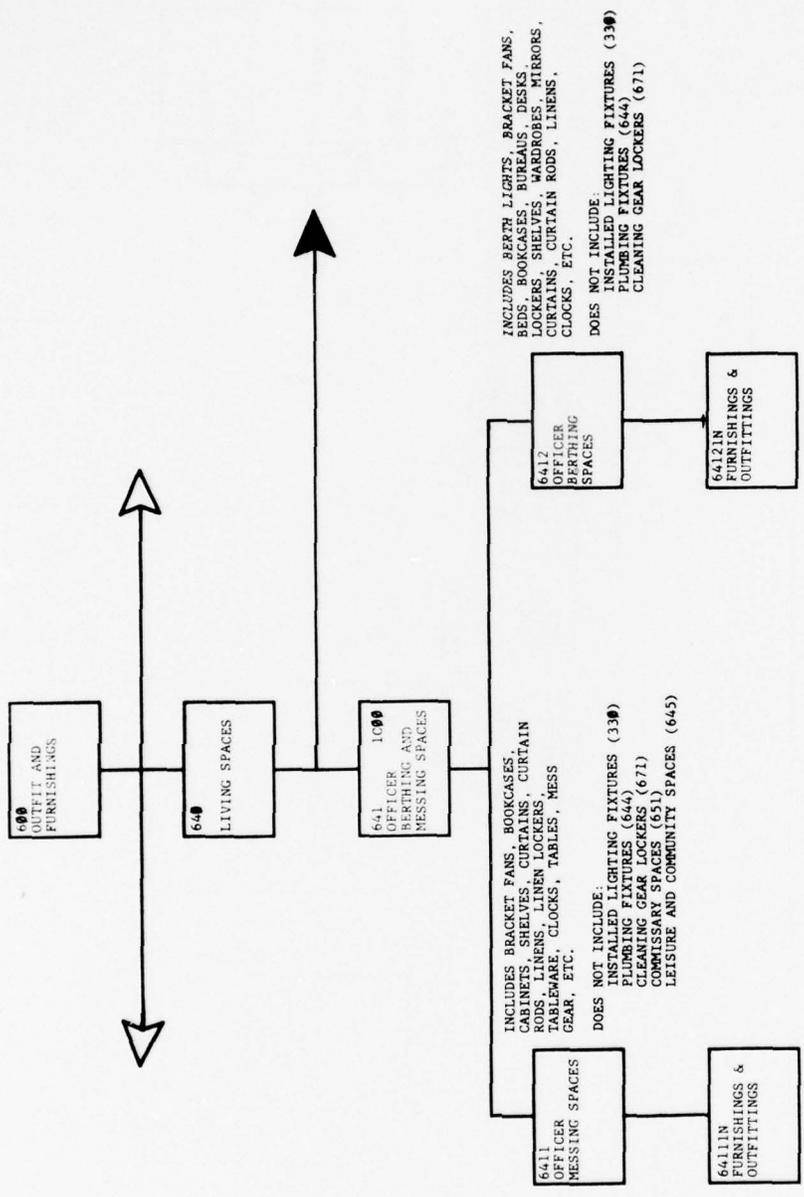


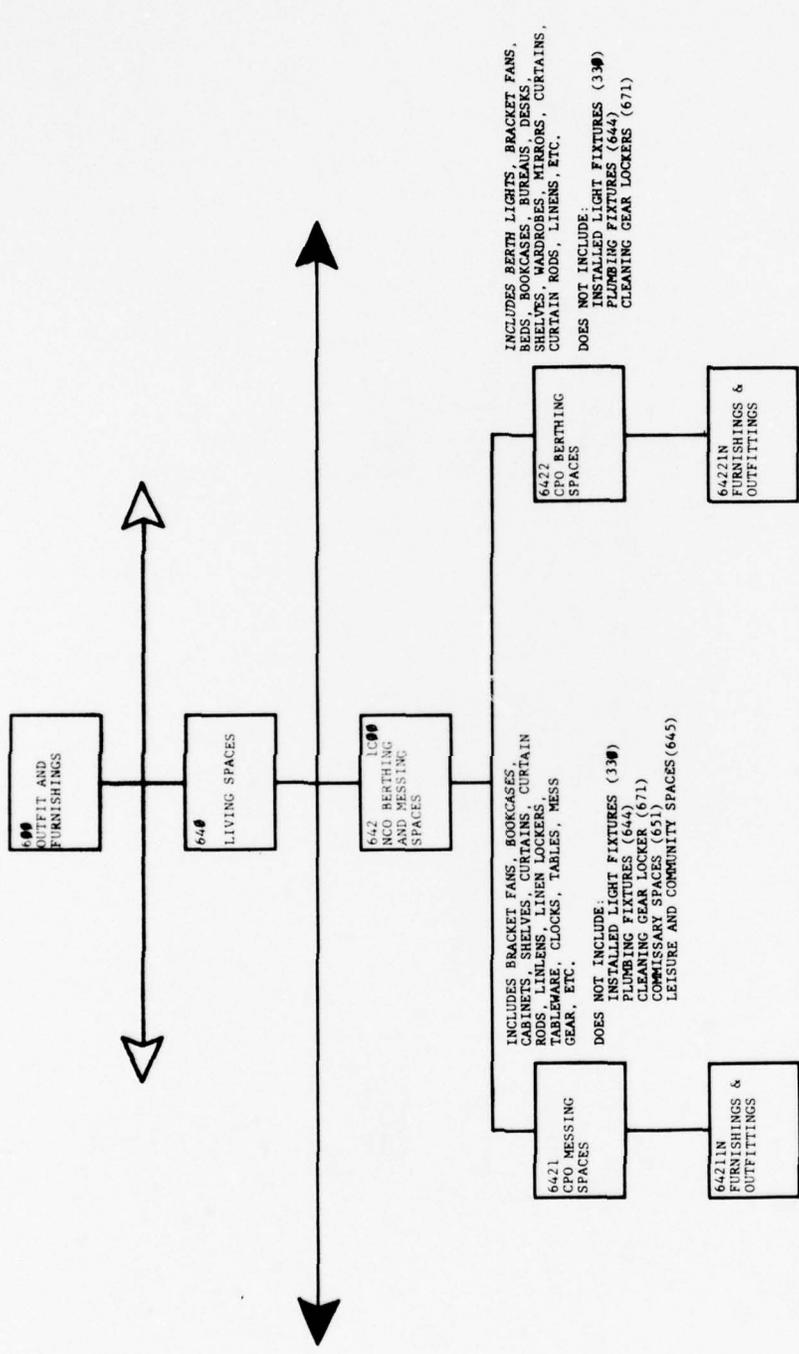


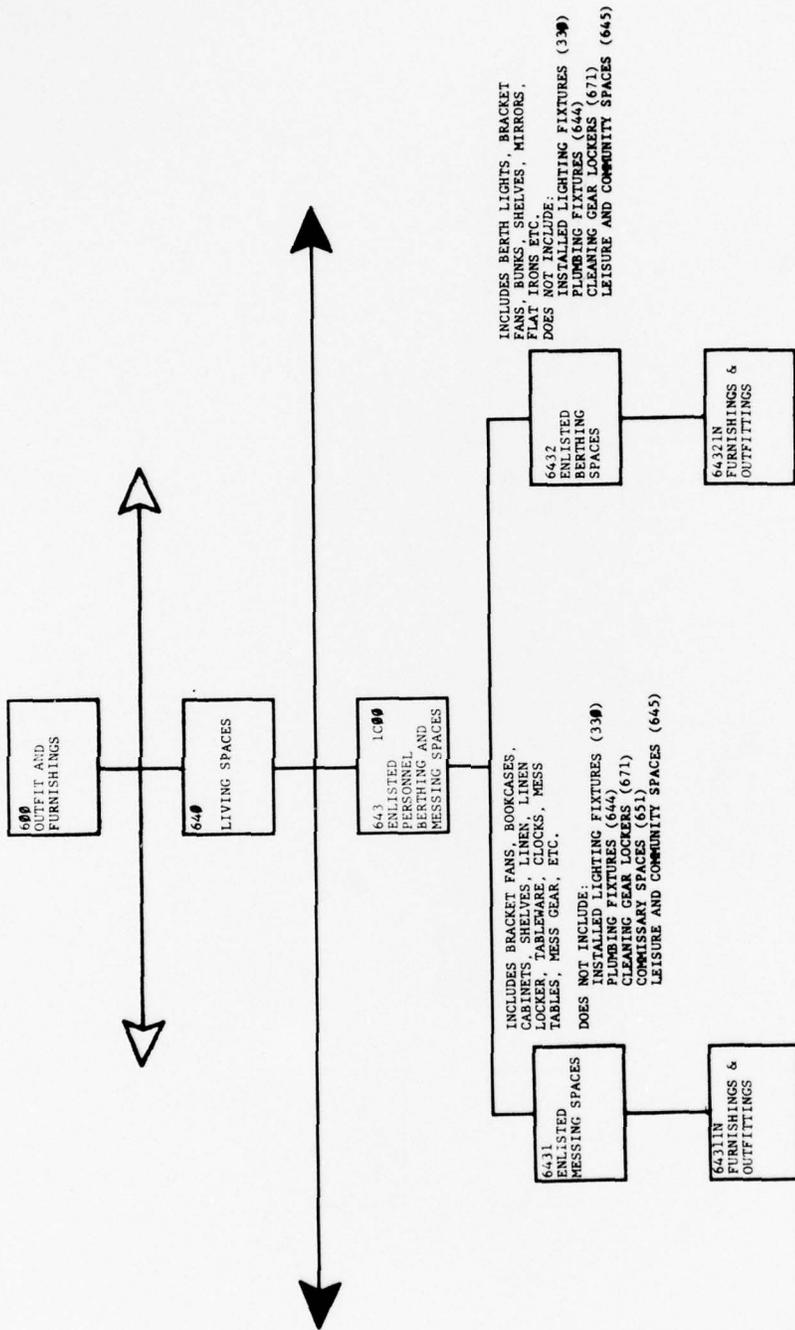


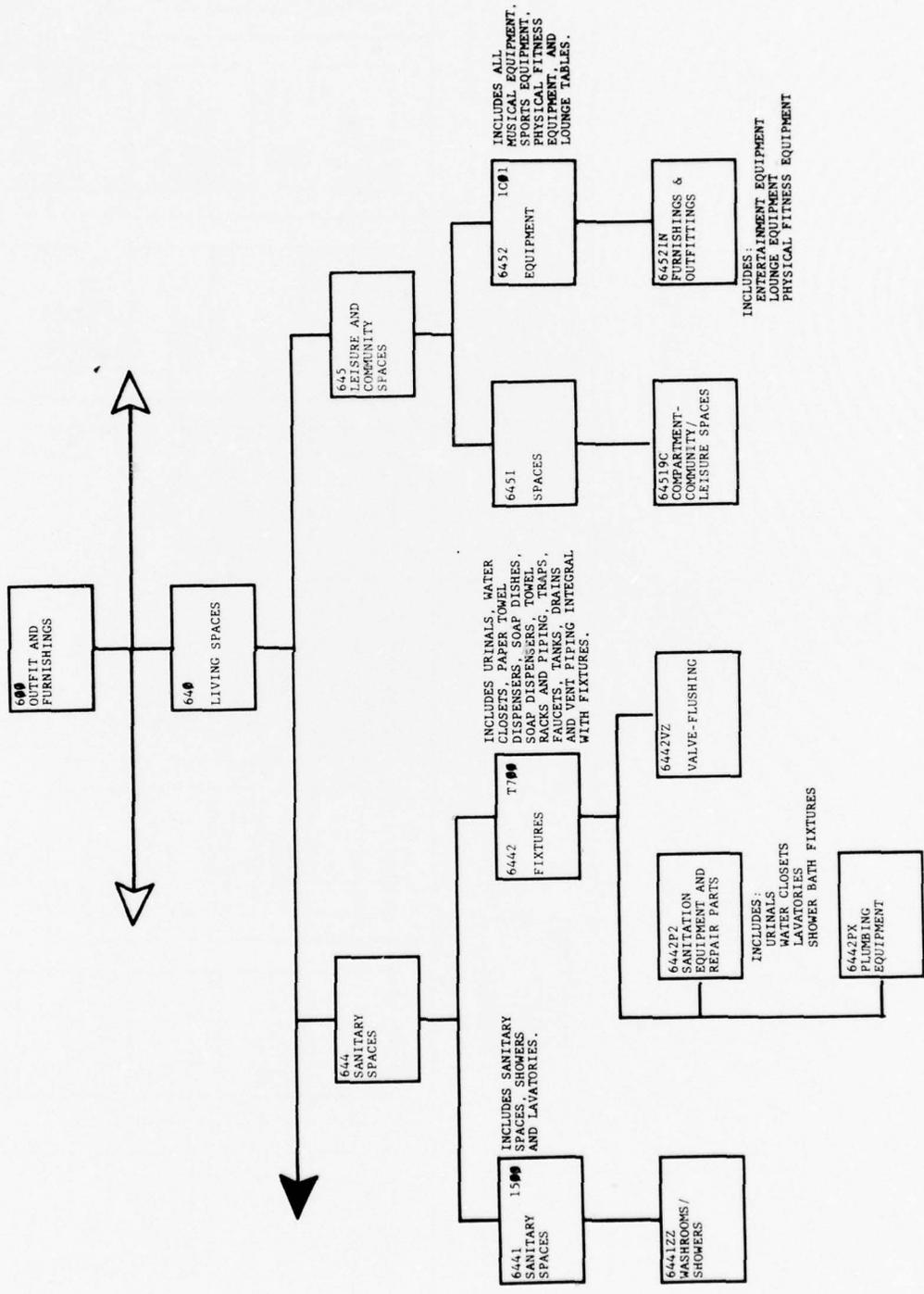


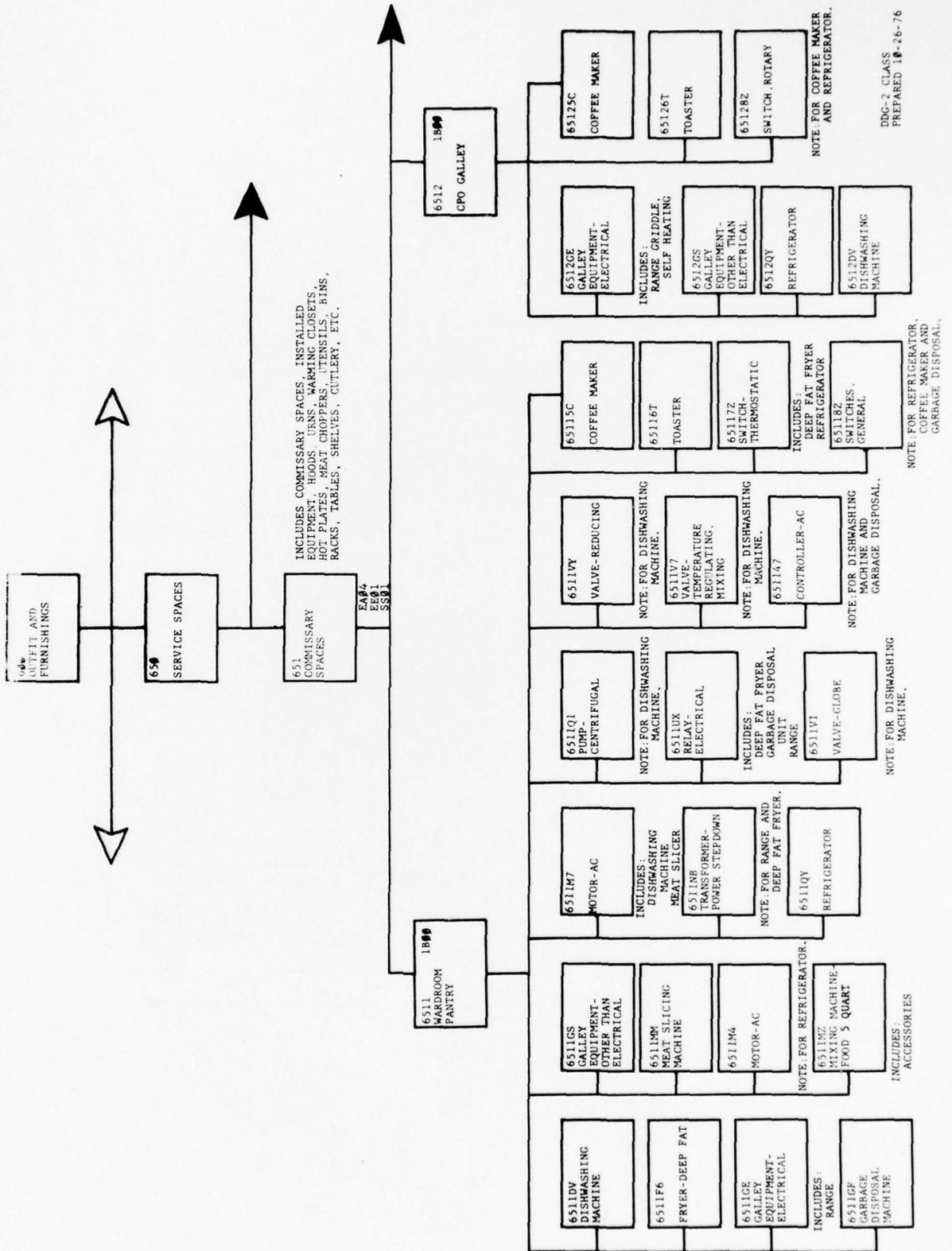
DDG-2 CLASS
PREPARED 10-26-76



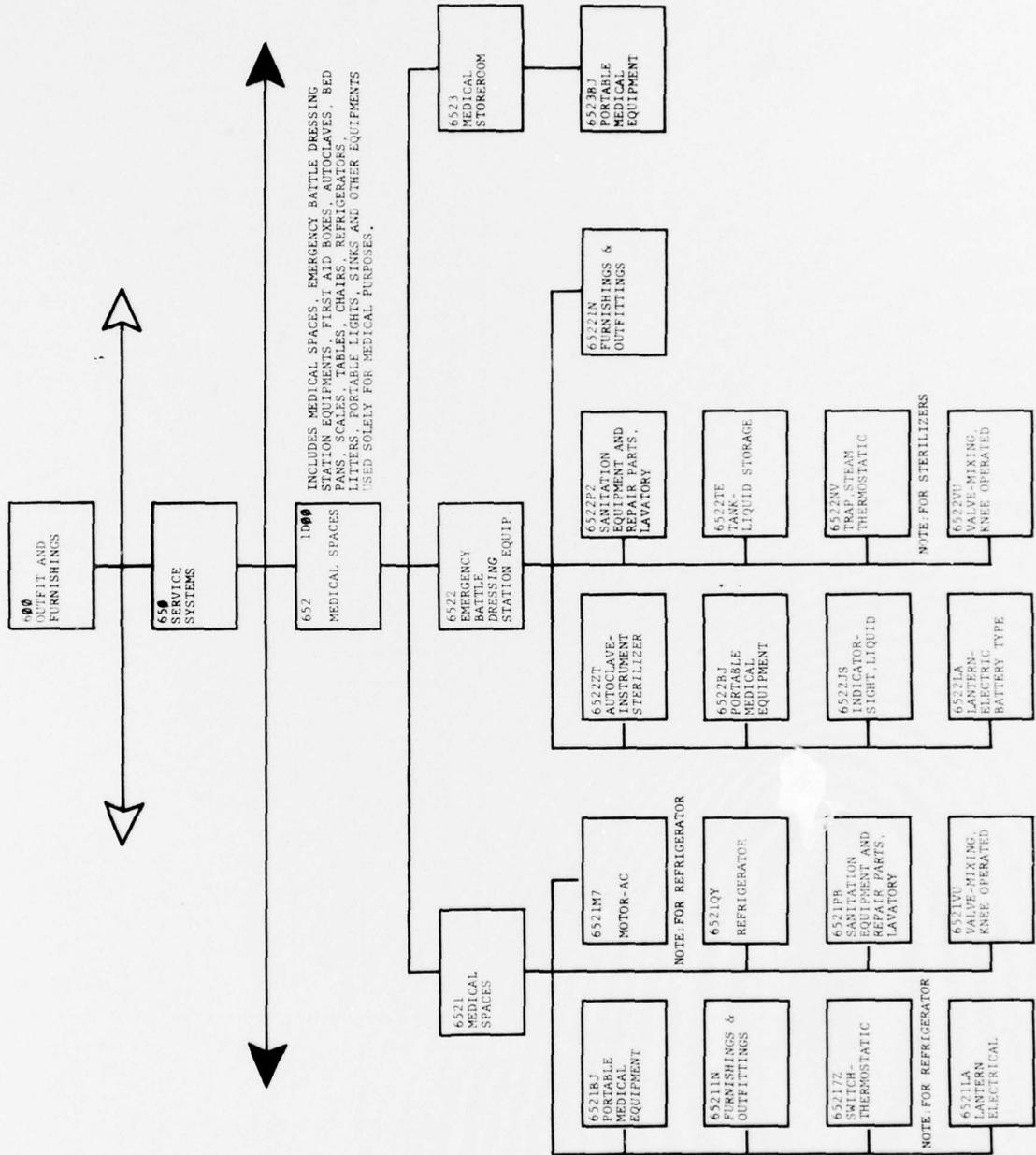


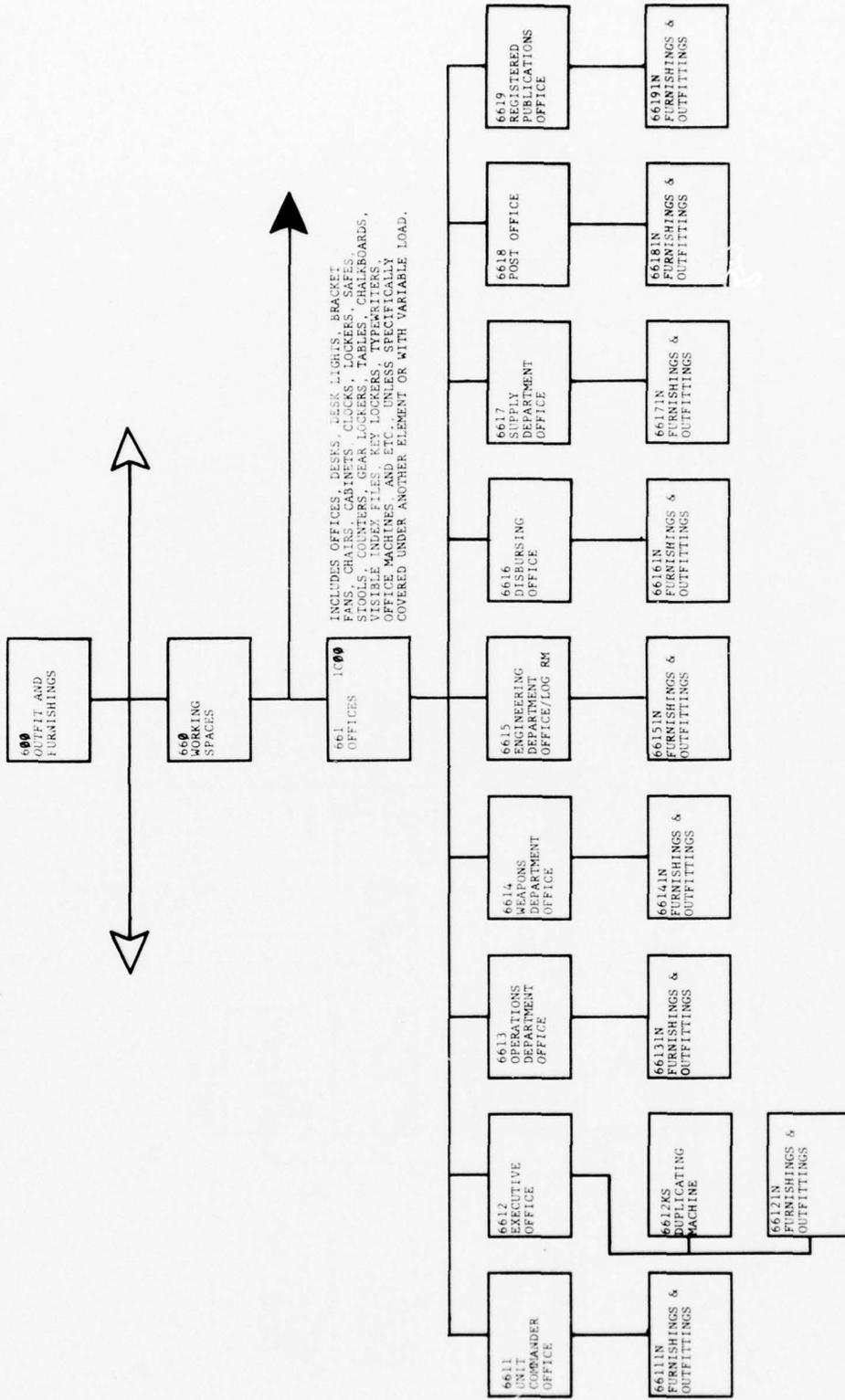


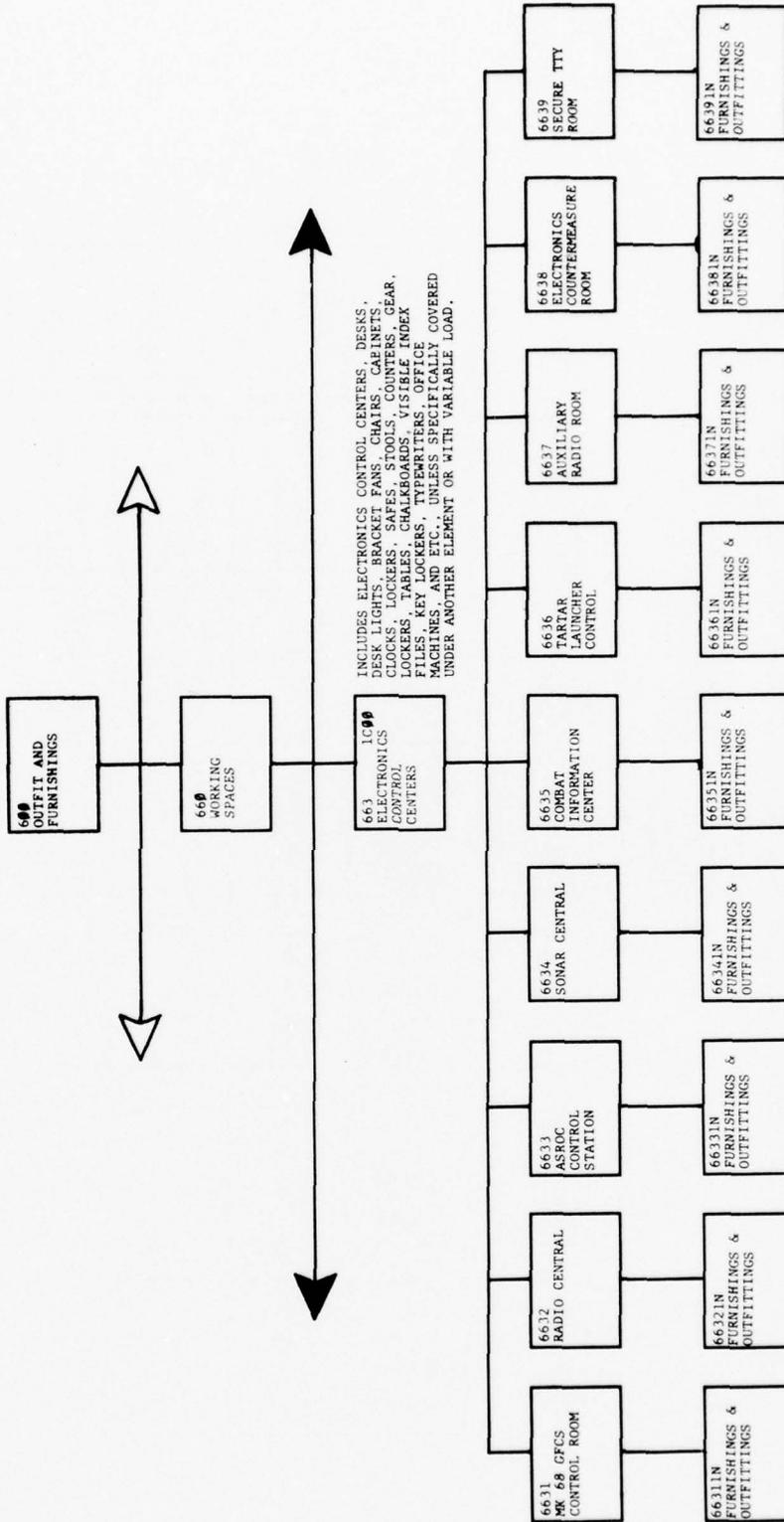


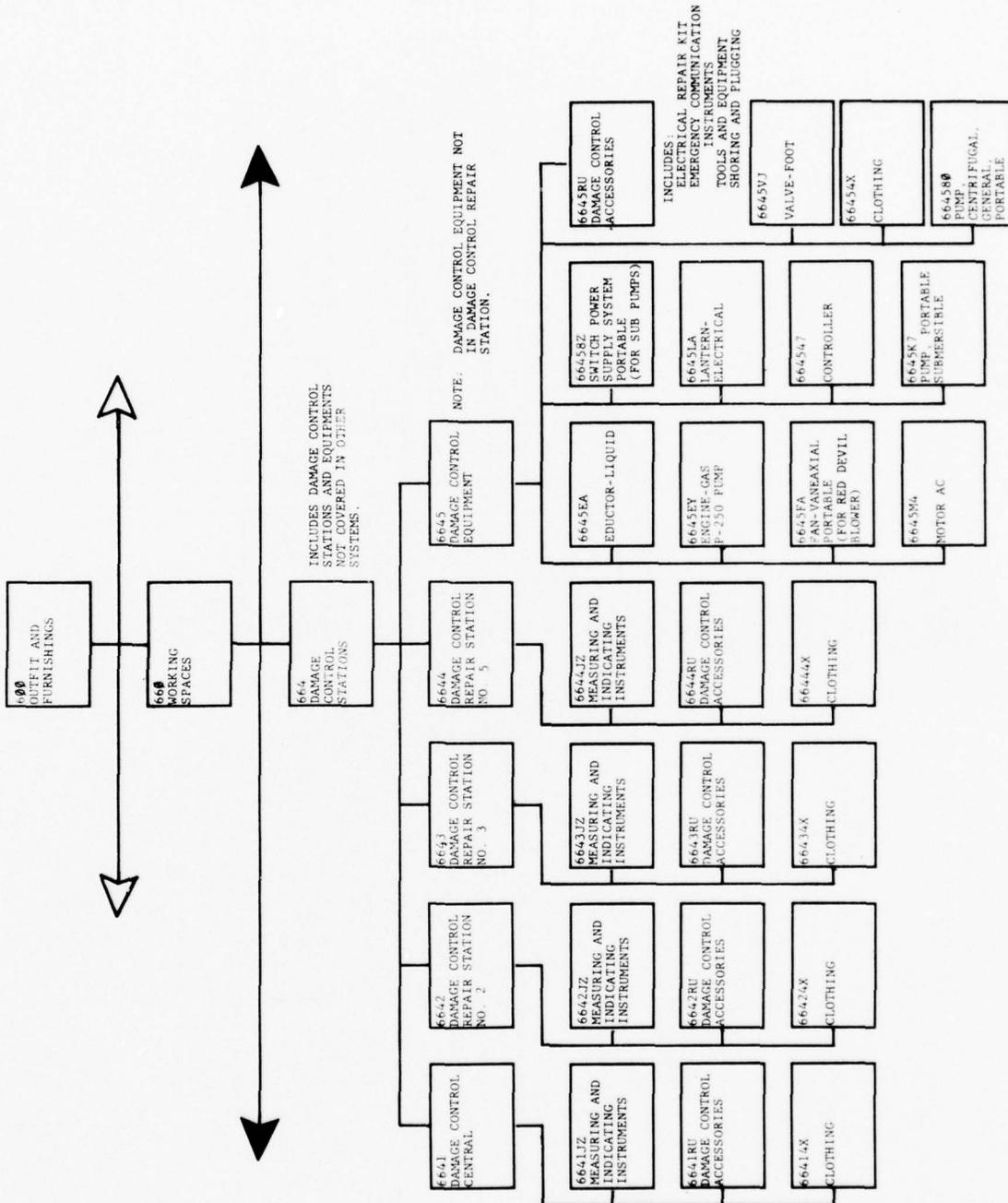


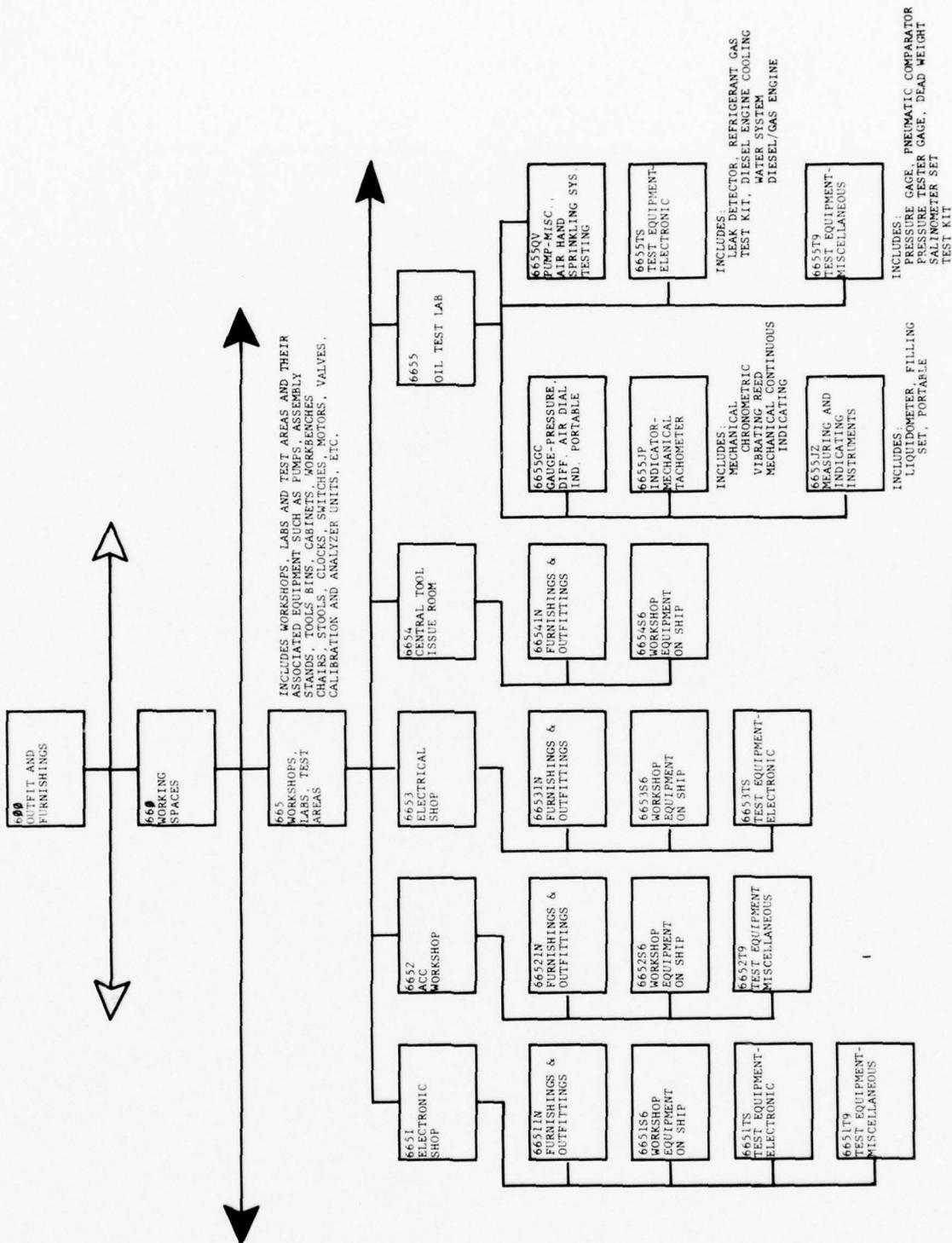
DDG-2 CLASS
 PREPARED 18-26-76



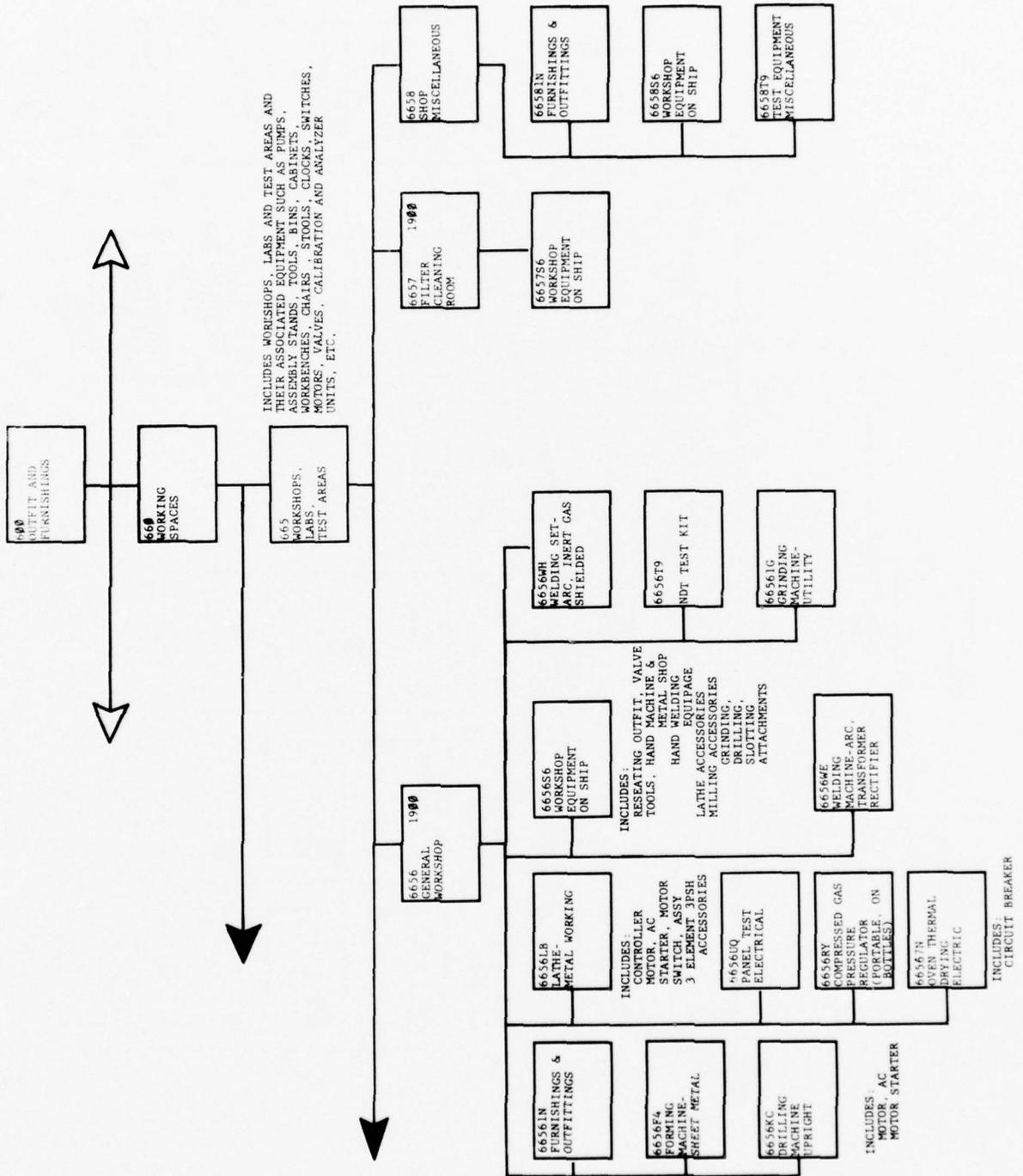


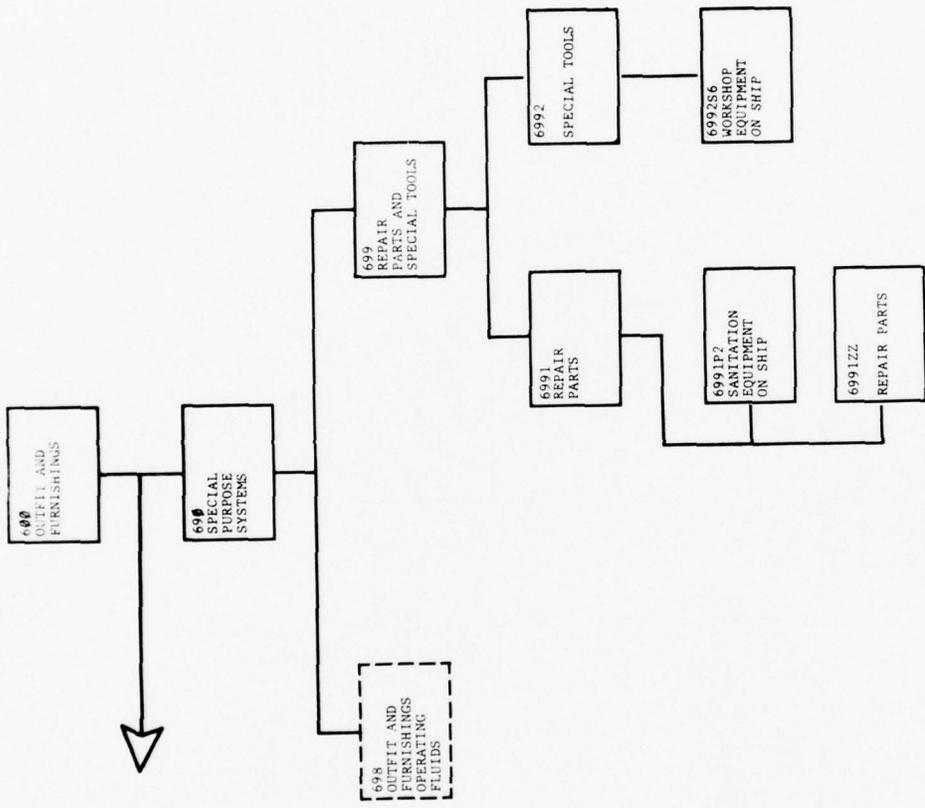


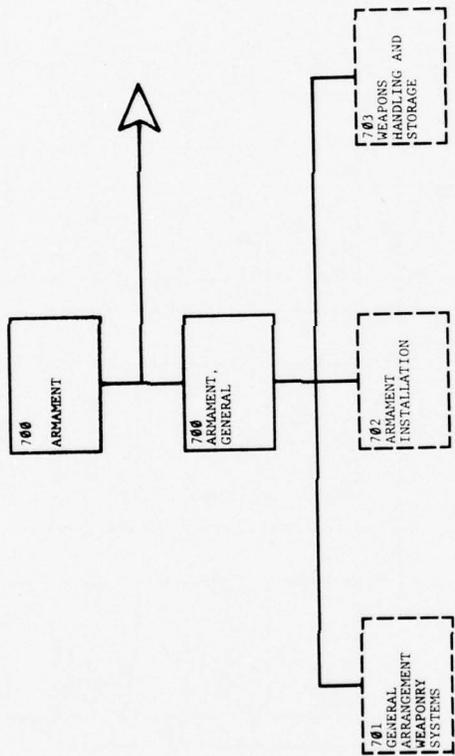


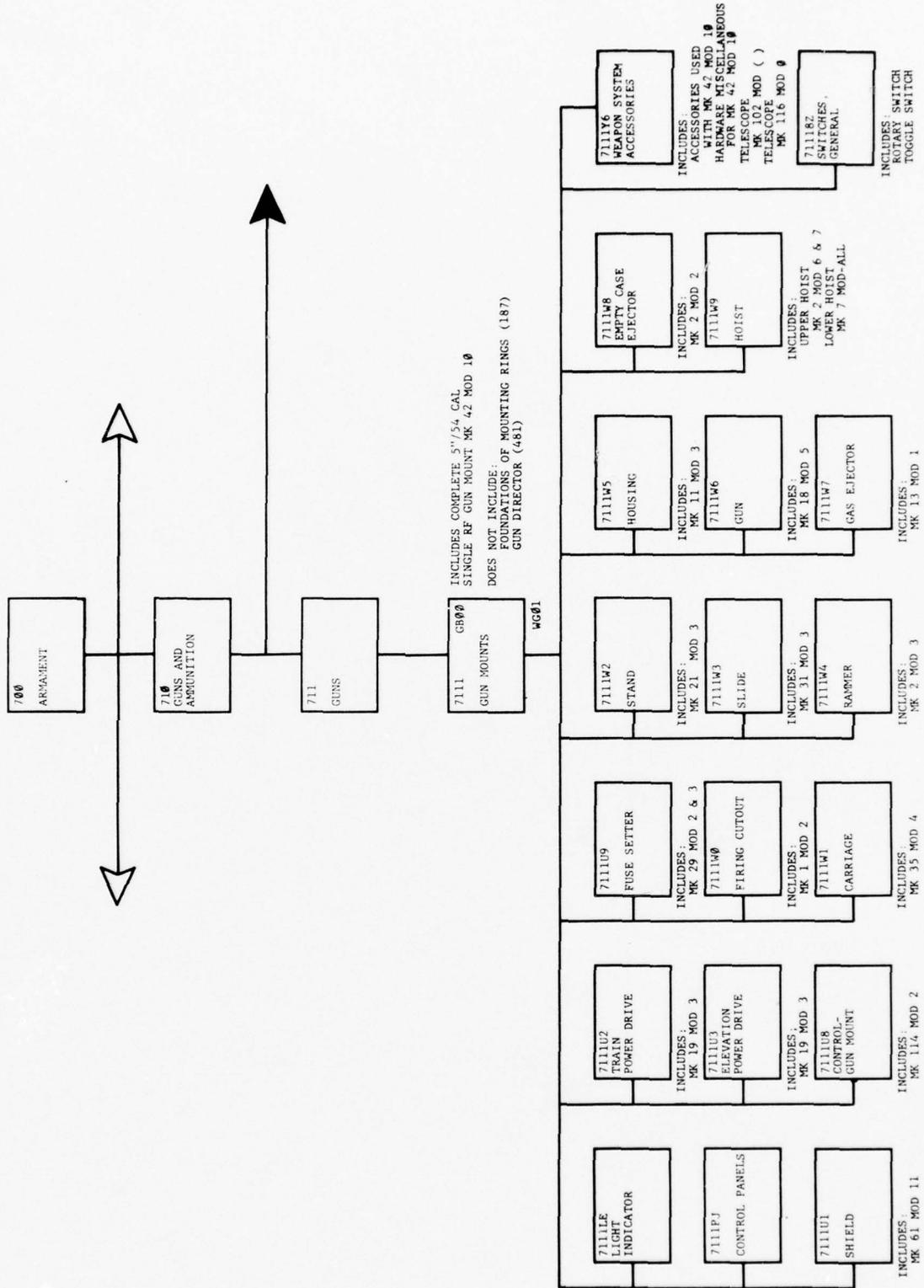


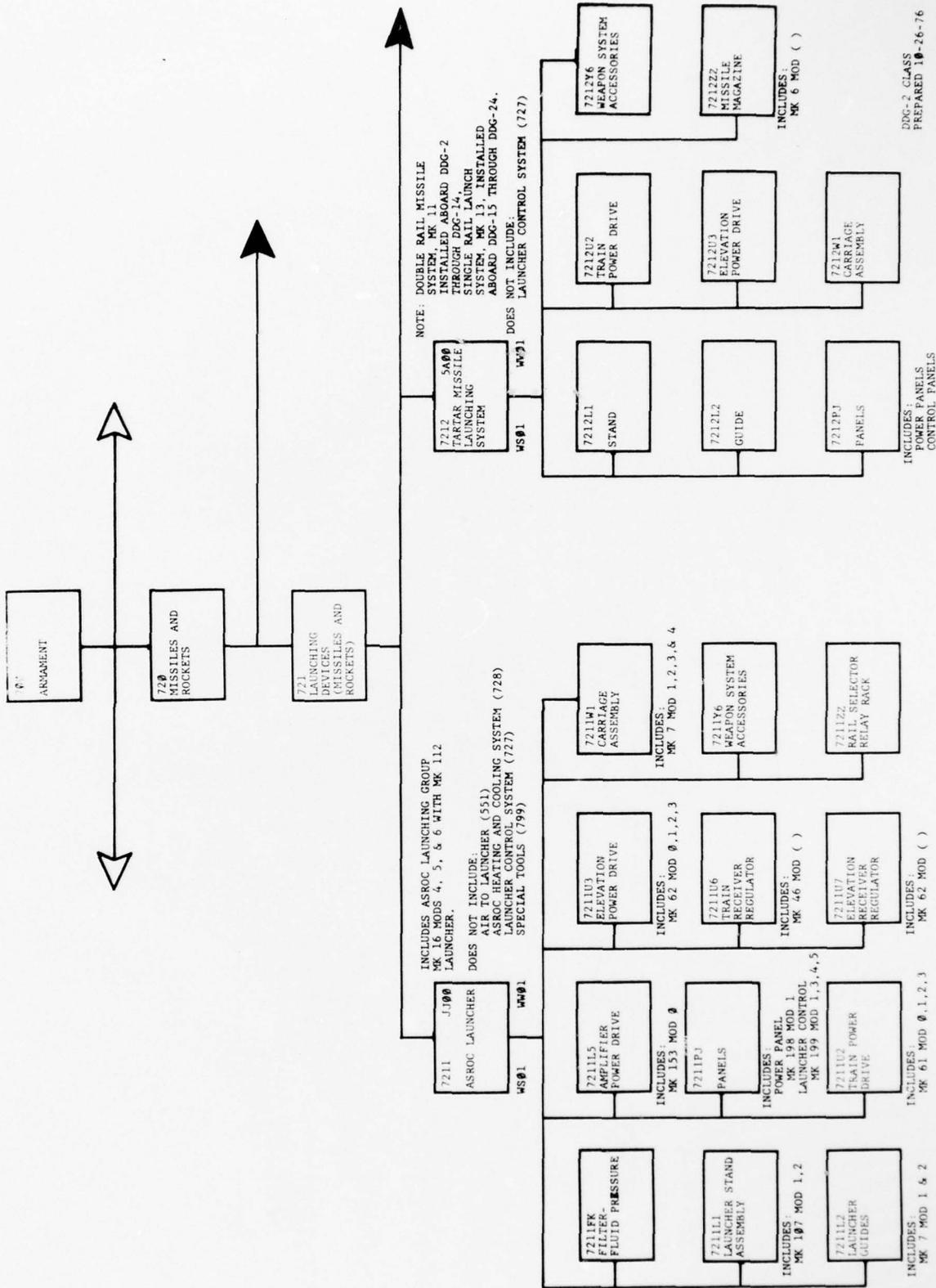
DDG-2 CLASS
 PREPARED 10-26-76











NOTE: DOUBLE RAIL MISSILE SYSTEM MK 11 THROUGH DDG-24. SINGLE RAIL LAUNCH SYSTEM MK 13 THROUGH DDG-24. DOES NOT INCLUDE LAUNCHER CONTROL SYSTEM (727)

INCLUDES ASROC LAUNCHING GROUP MK 16 MODS 4, 5, & 6 WITH MK 112 LAUNCHER. DOES NOT INCLUDE: AIR TO LAUNCHER (551) ASROC HEATING AND COOLING SYSTEM (728) LAUNCHER REMOVAL SYSTEM (727) SPECIAL TOOLS (799)

INCLUDES: POWER PANELS CONTROL PANELS

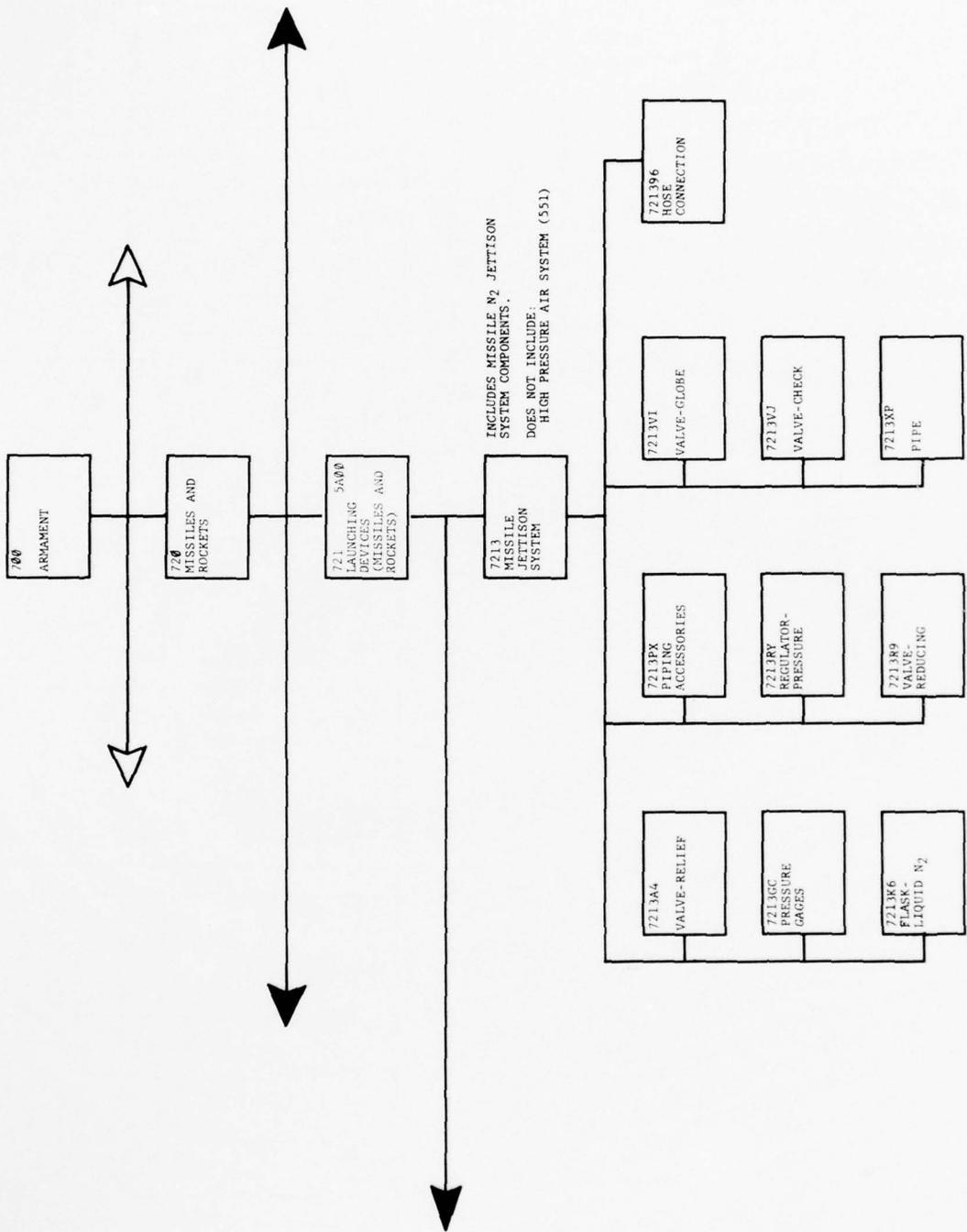
INCLUDES: MK 62 MOD ()

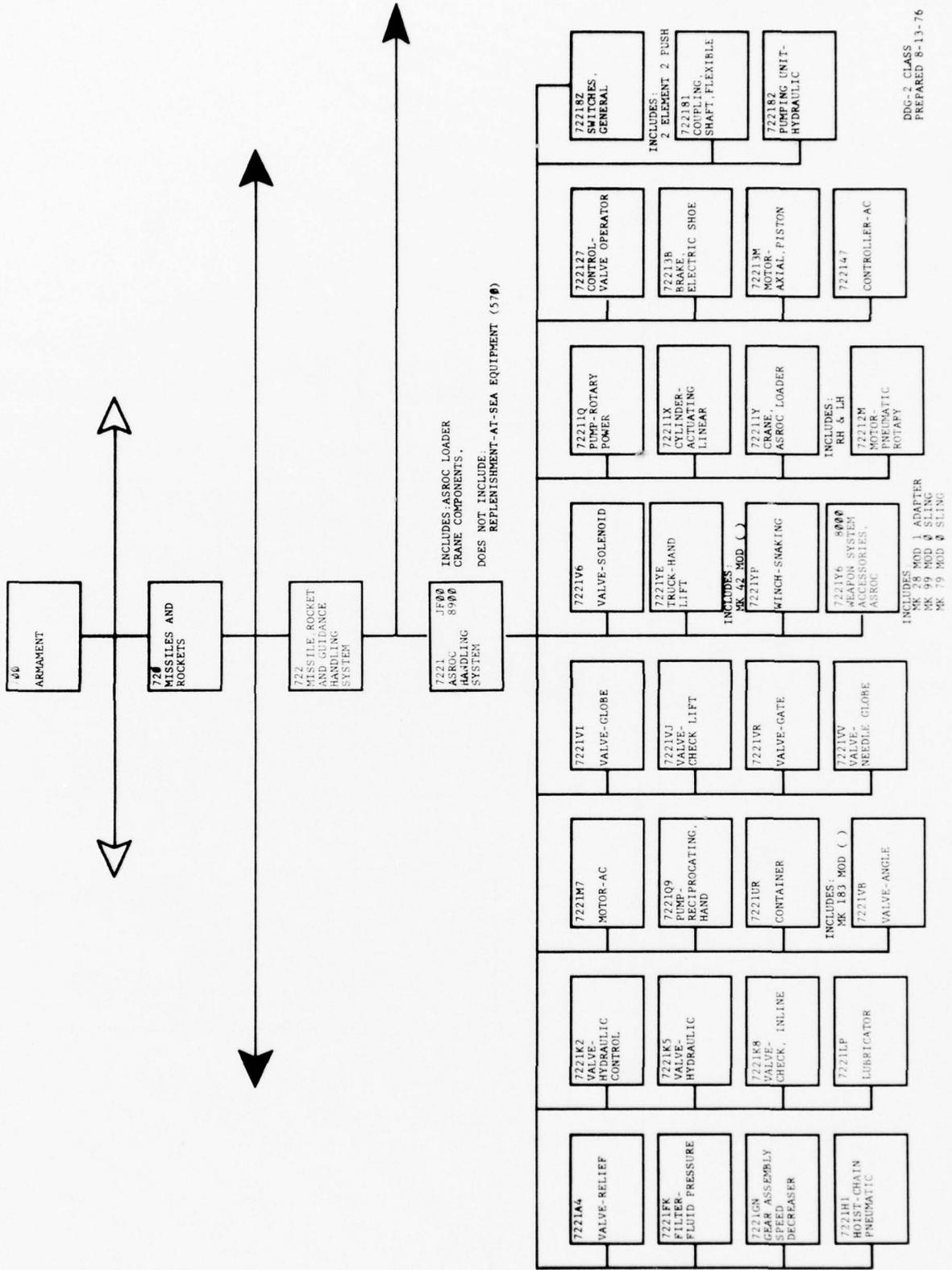
INCLUDES: MK 61 MOD 0, 1, 2, 3

INCLUDES: MK 7 MOD 1 & 2

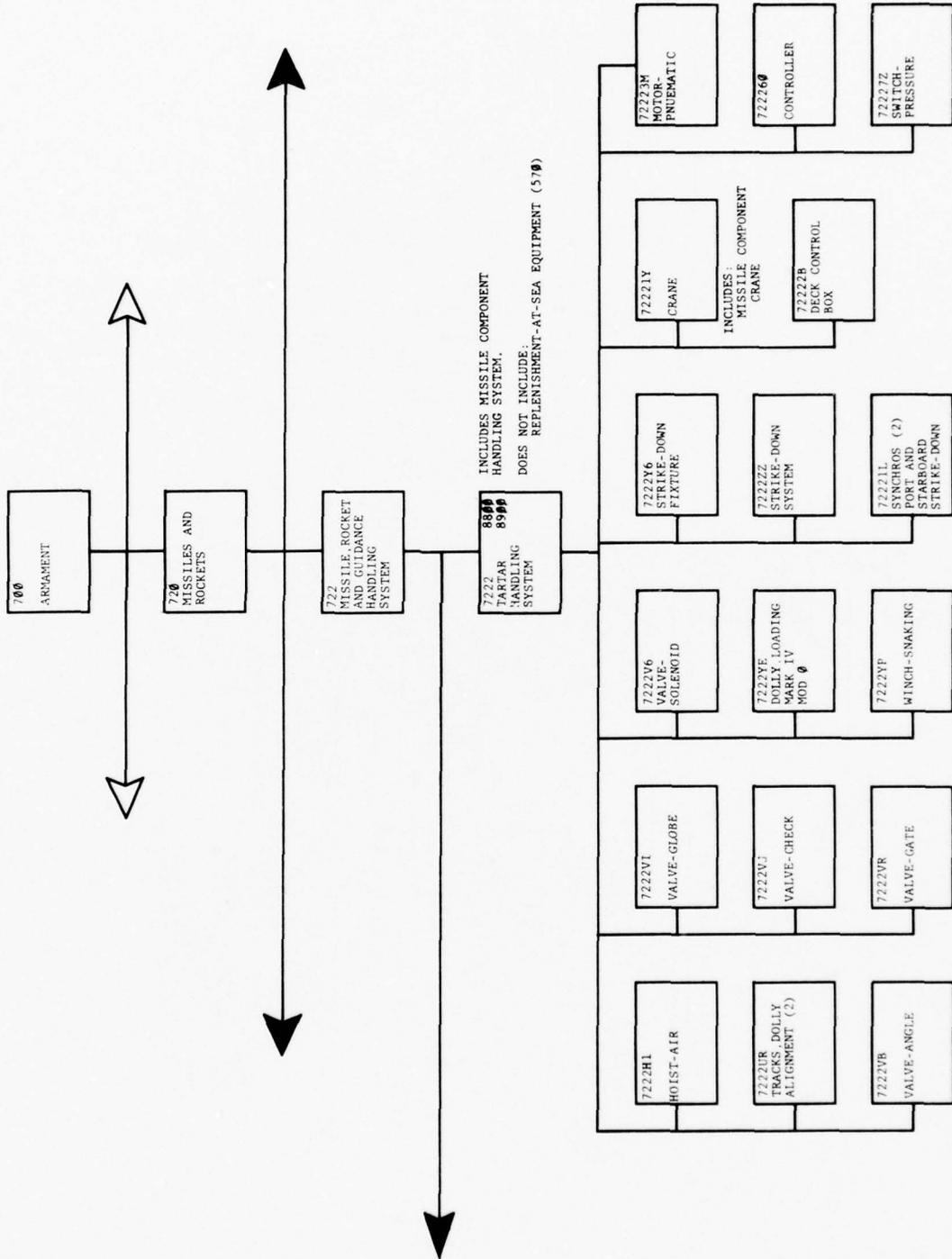
INCLUDES: MK 6 MOD ()

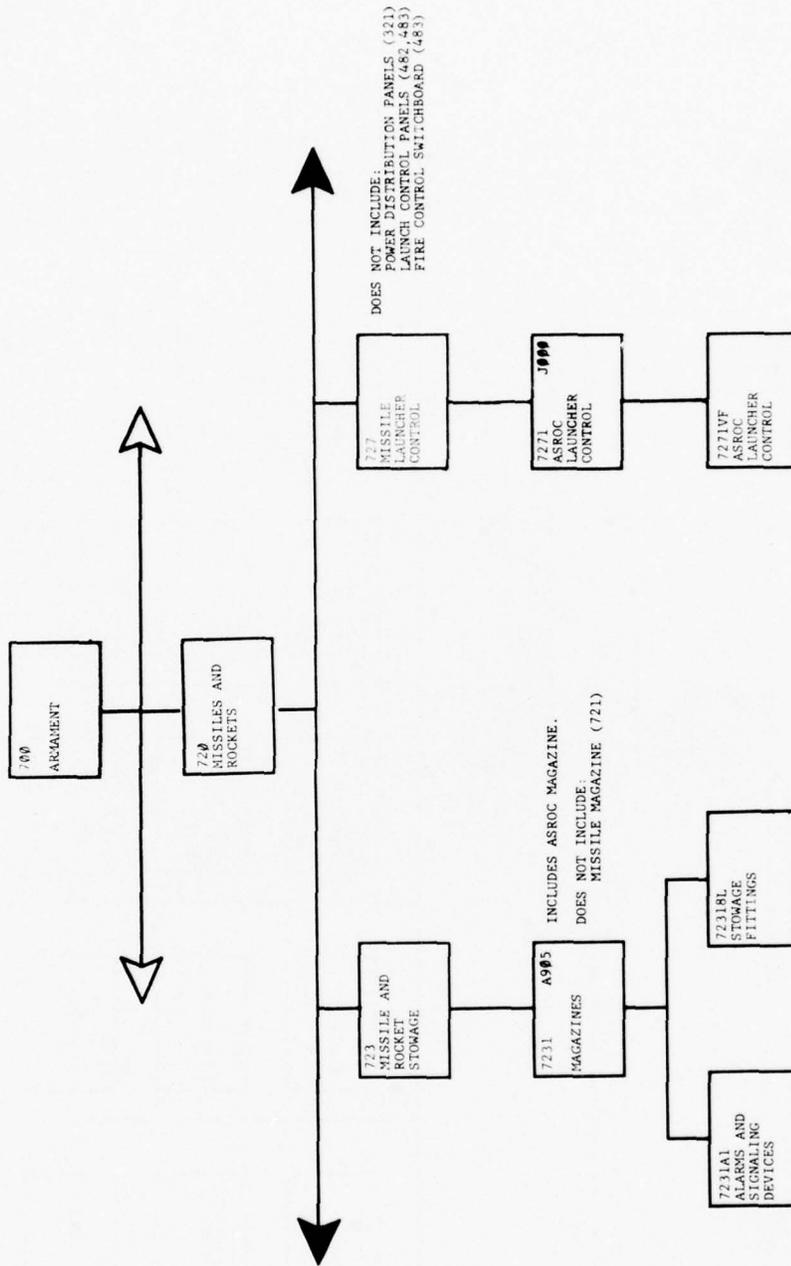
DDG-2 CLASS PREPARED 10-26-76

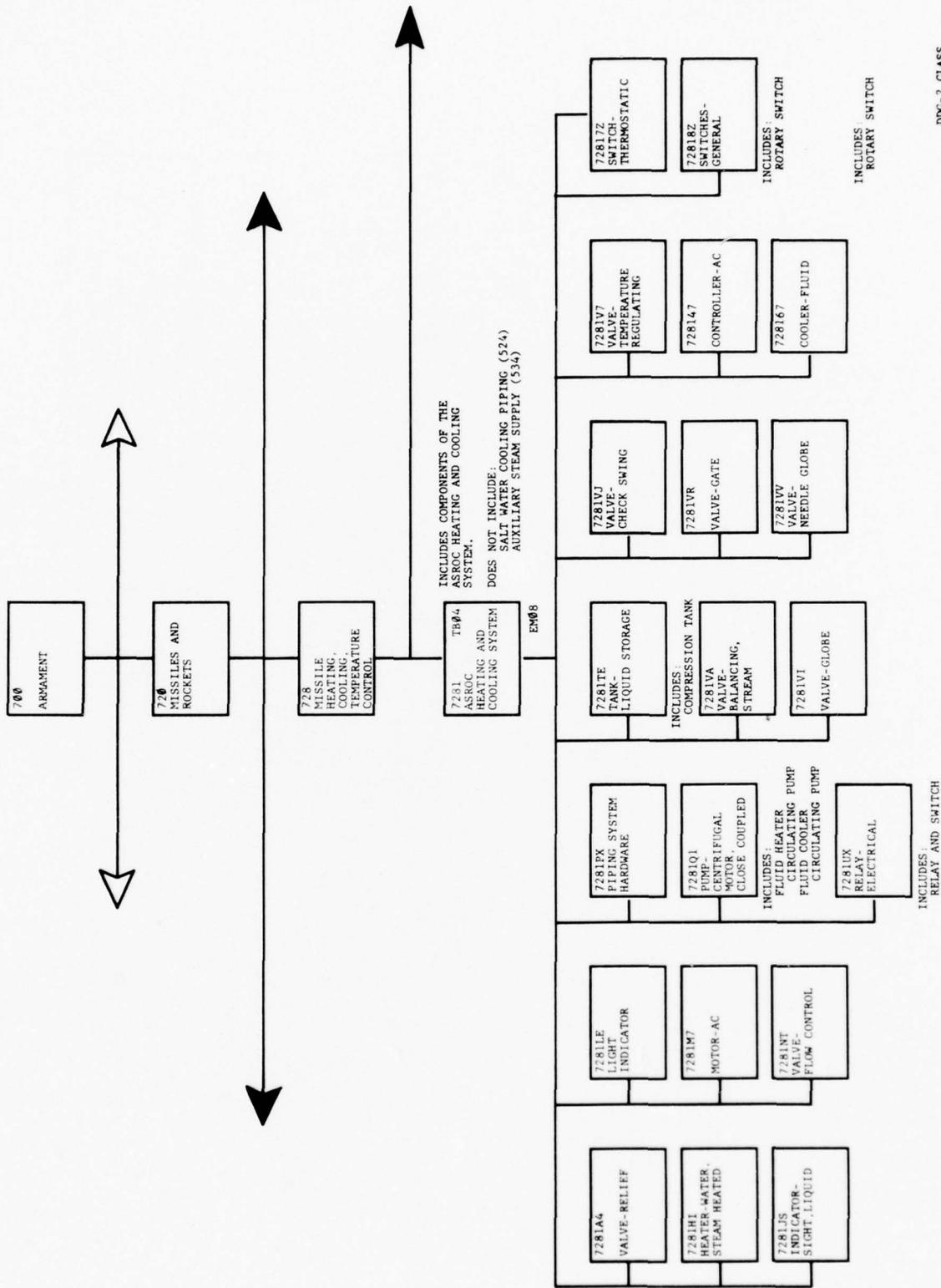


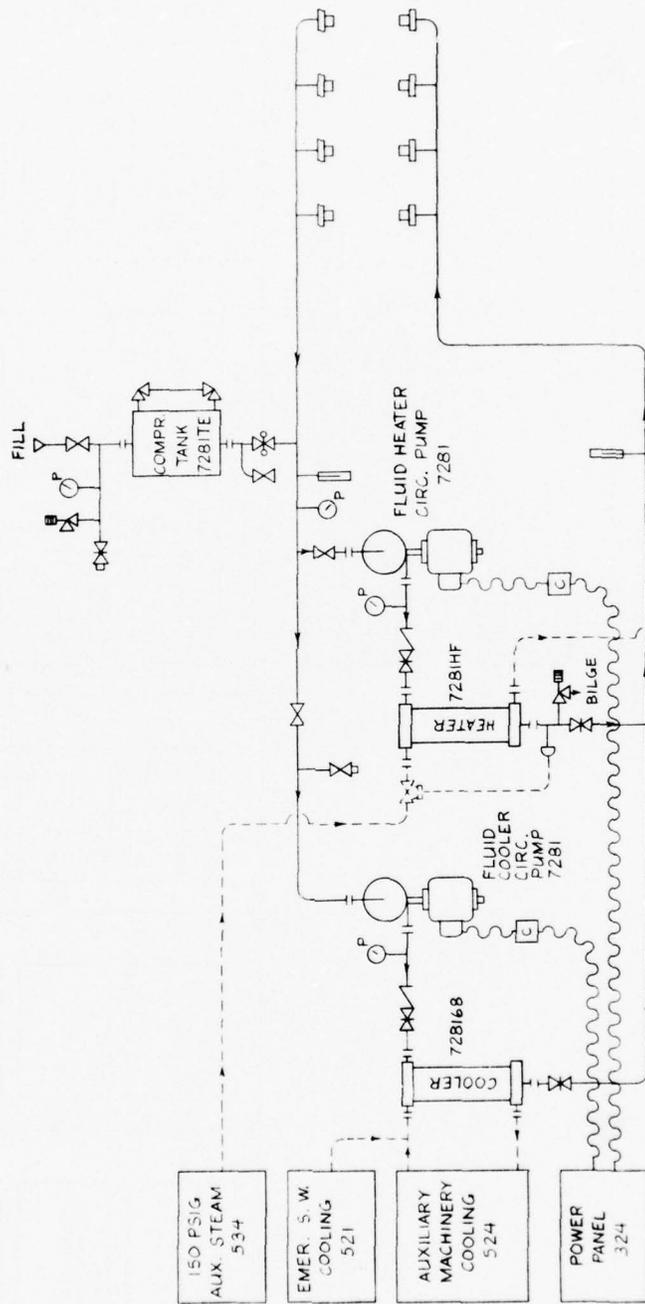


DDG-2 CLASS
PREPARED 8-13-76



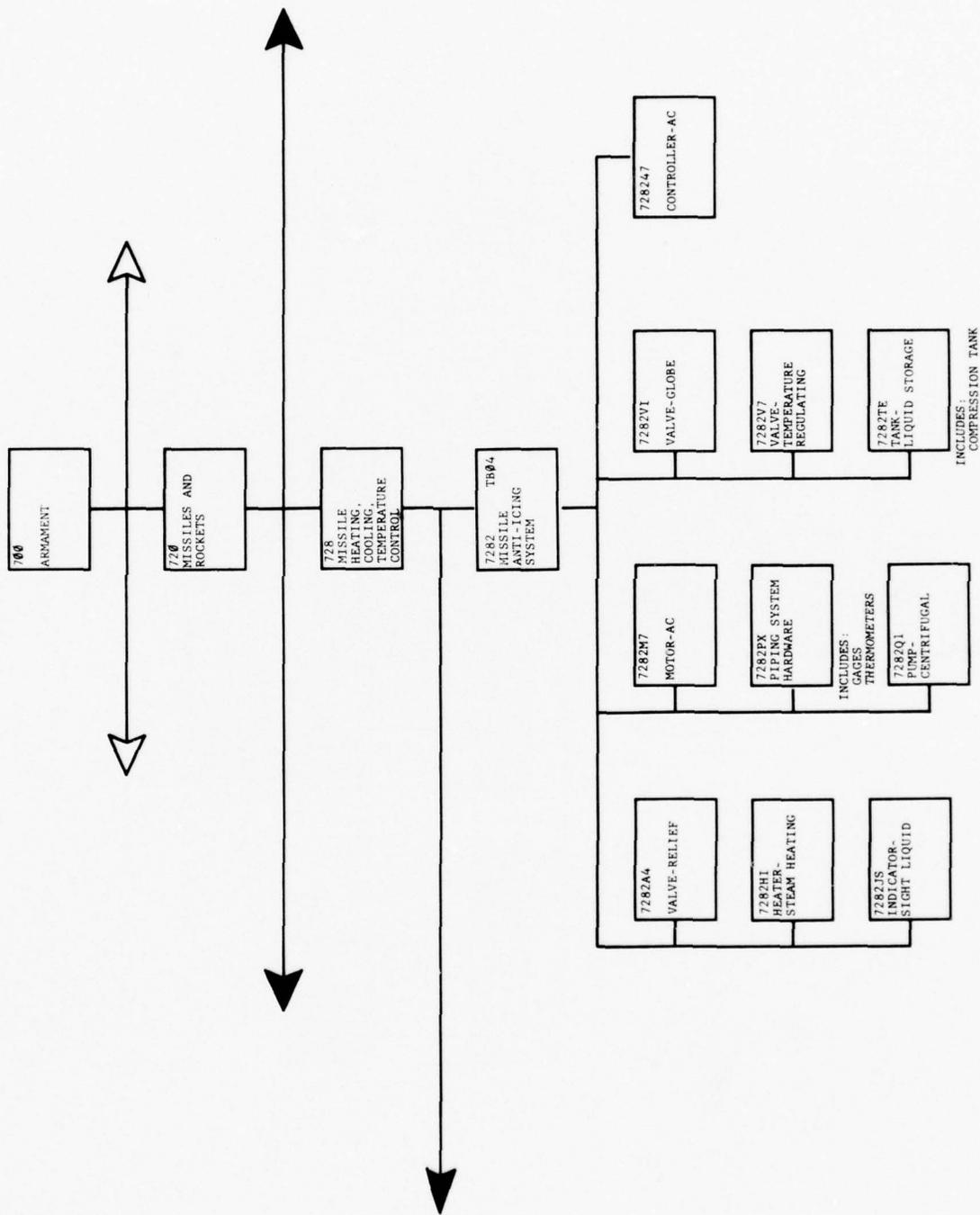


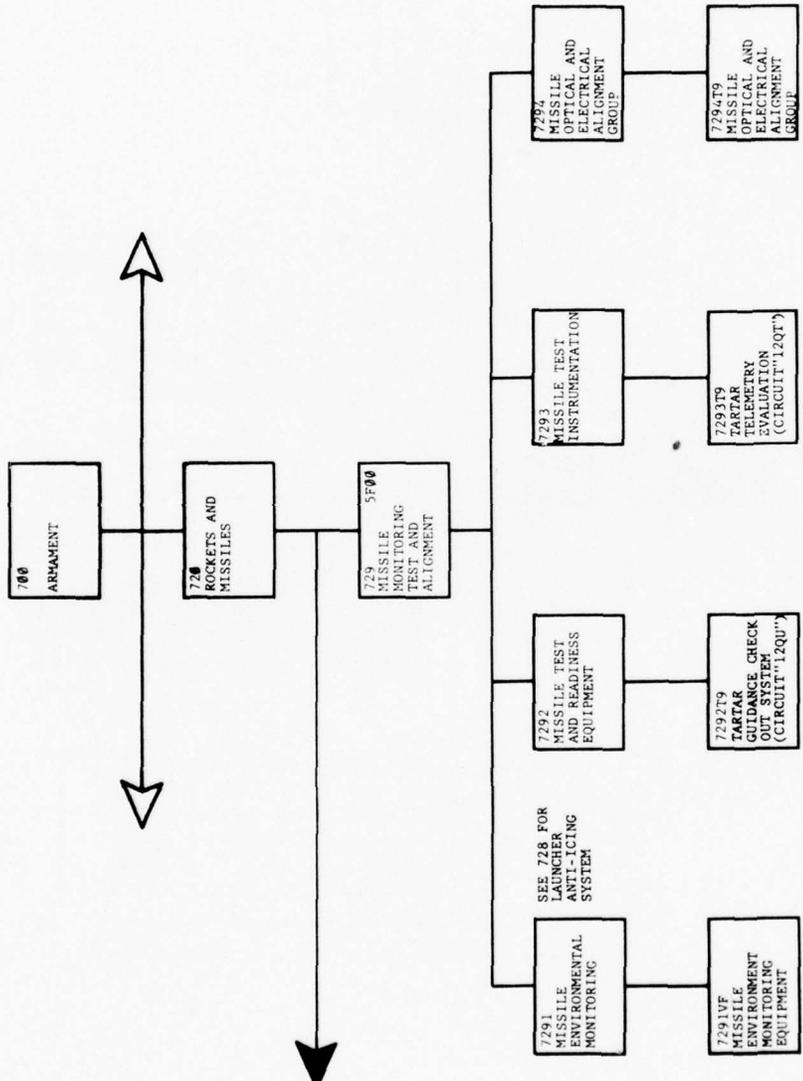




DDG-2 CLASS
 SHIP WORK BREAKDOWN STRUCTURE
 SMSB SHIP SYSTEM DIAGRAM
 700 ARMAMENT
 720 MISSILES AND ROCKETS
 728 ASROC HEATING AND COOLING SYSTEM

FRESH WATER
 DRAIN MAIN
 534





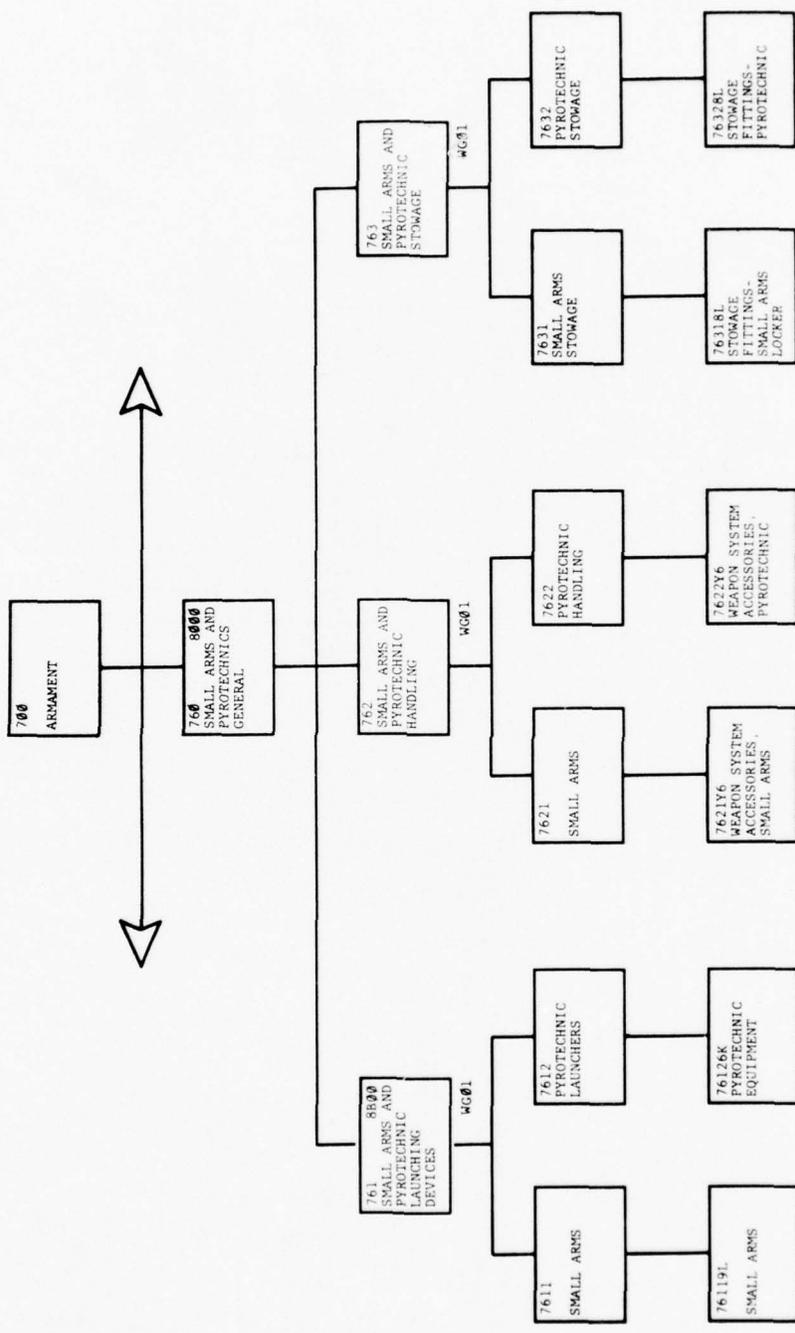
INCLUDES:

- AN/SM-1
- AN/SM-1
- AN/SM-1
- AS-979/UWR
- BATTERY CHARGER
- CONTROL PANEL

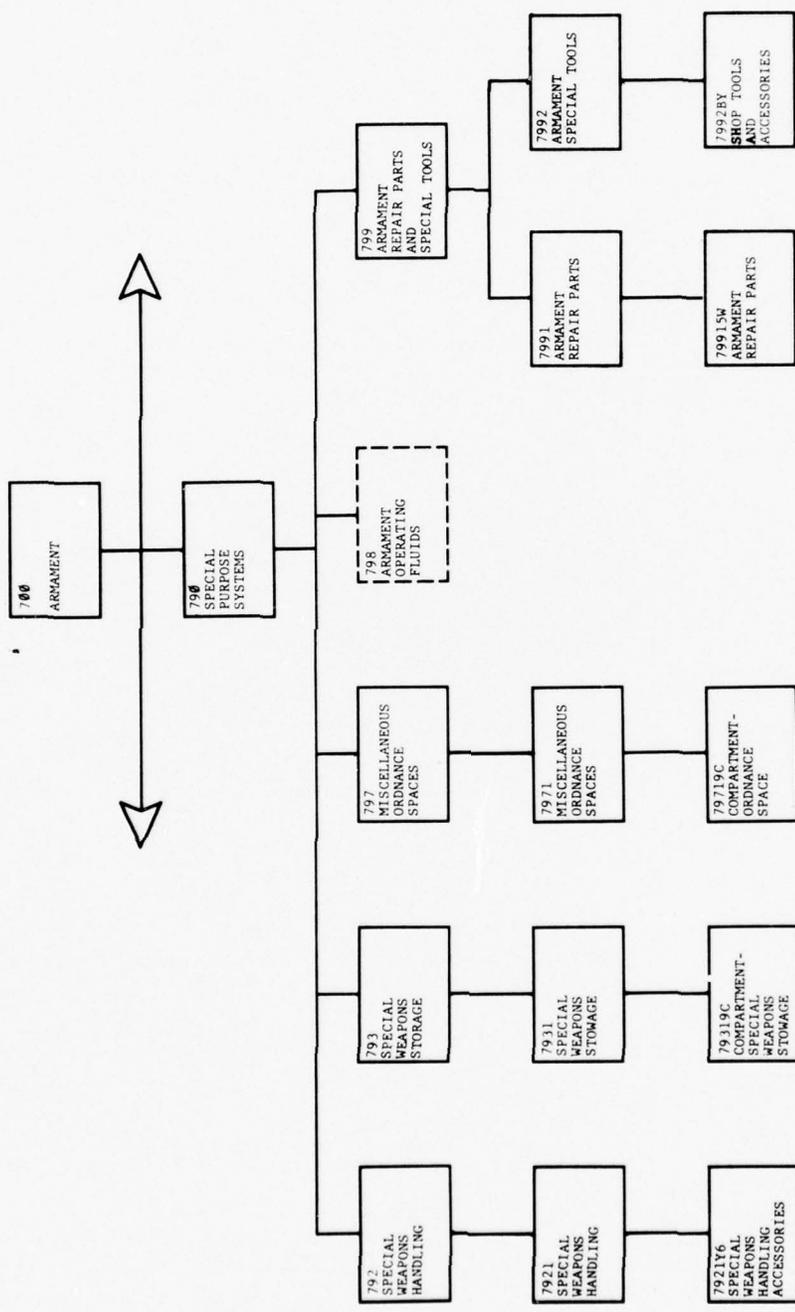
NOTE: TELEMETRY EQUIPMENT TO BE REMOVED BY SHIP ALT.

INCLUDES:

- AN/DSM-55(V)
- CM-122/DSM SIGNAL COMPARTOR
- OS-1199/DSM
- SR-11016/SSM
- TDD TACTICAL TEST SET

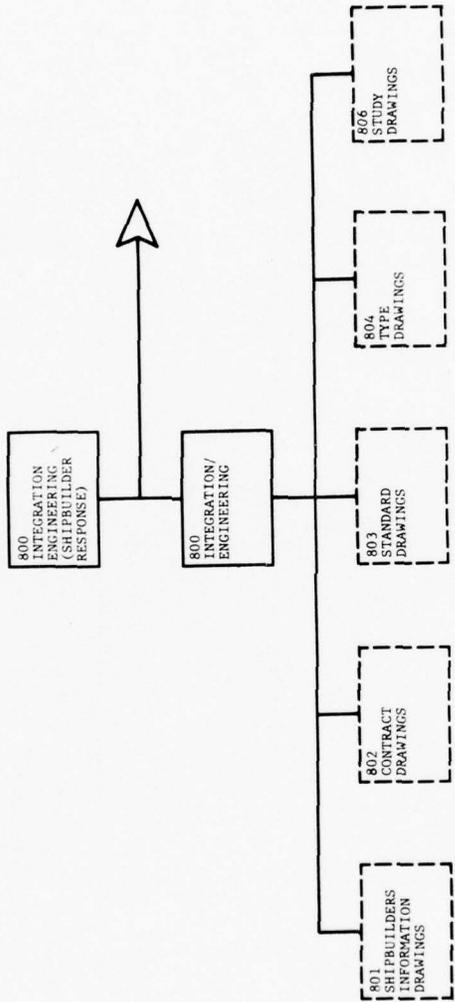


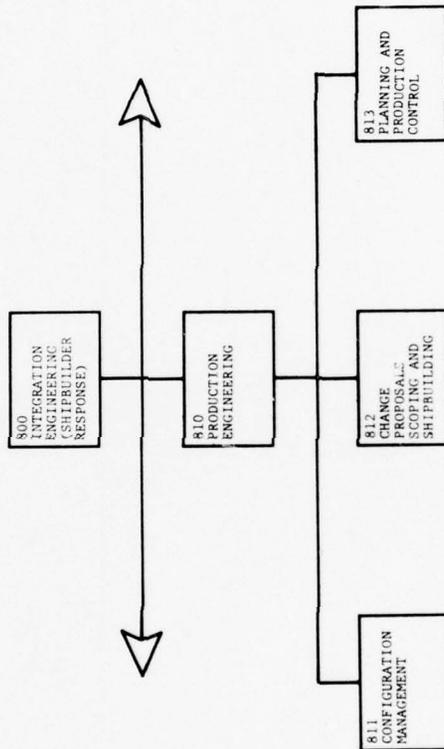
INCLUDES:
 PISTOLS
 RIFLES
 SHOTGUNS
 METASCOPE AN/PAS-6
 NIGHT VISION MK 36 & 37

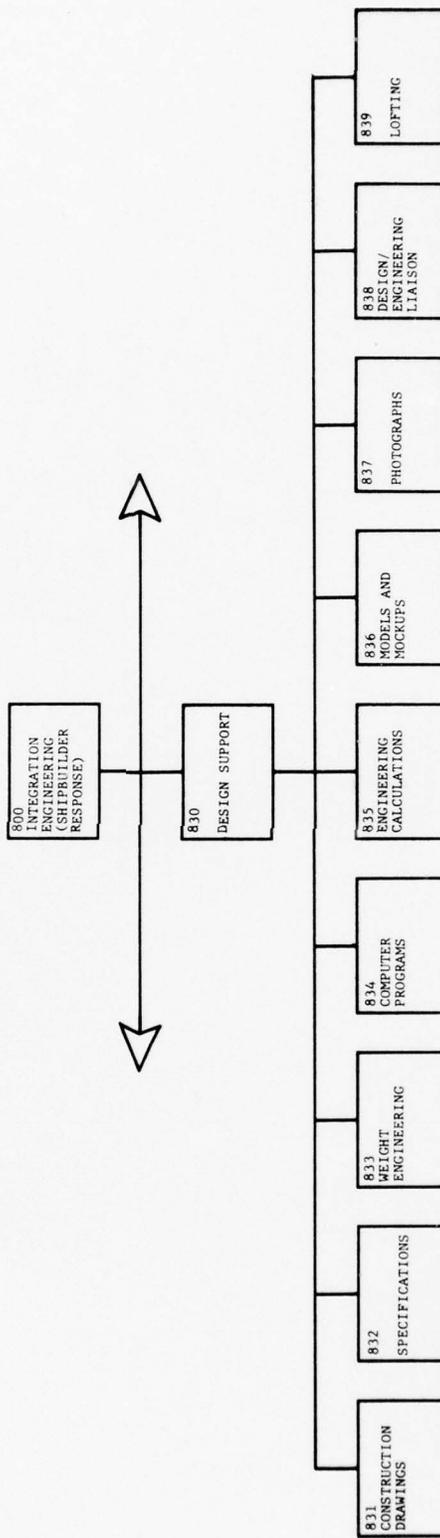


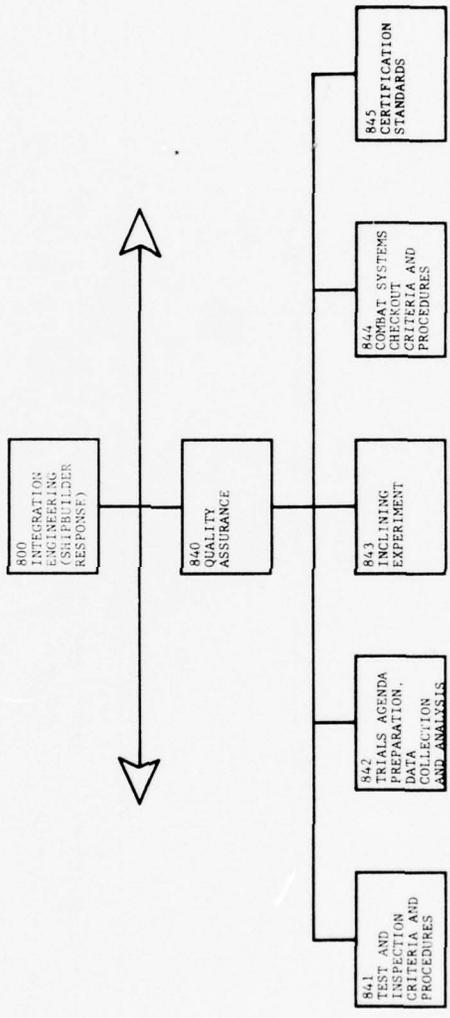
INCLUDES:
5 7/34 CAL PIPE
REPLACEMENT KITS

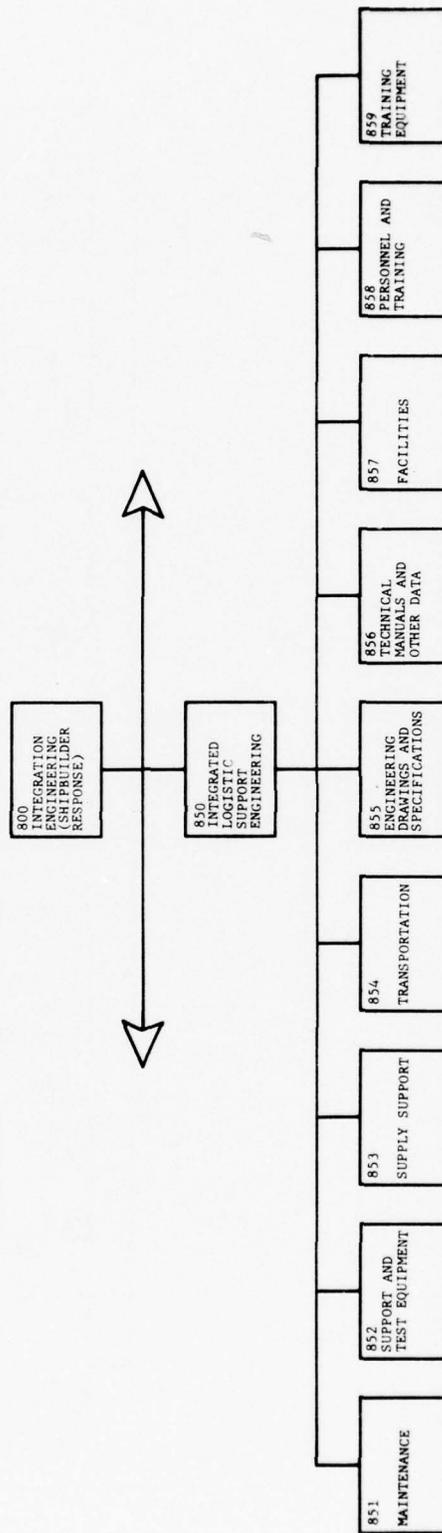
INCLUDES:
TOOLS USED WITH:
LASROC
FIRE CONTROL SYSTEMS
TARTAR MISSILE SYSTEM
TORPEDO TUBE LAUNCHER
SMALL ARMS
5 7/54 CAL GUN

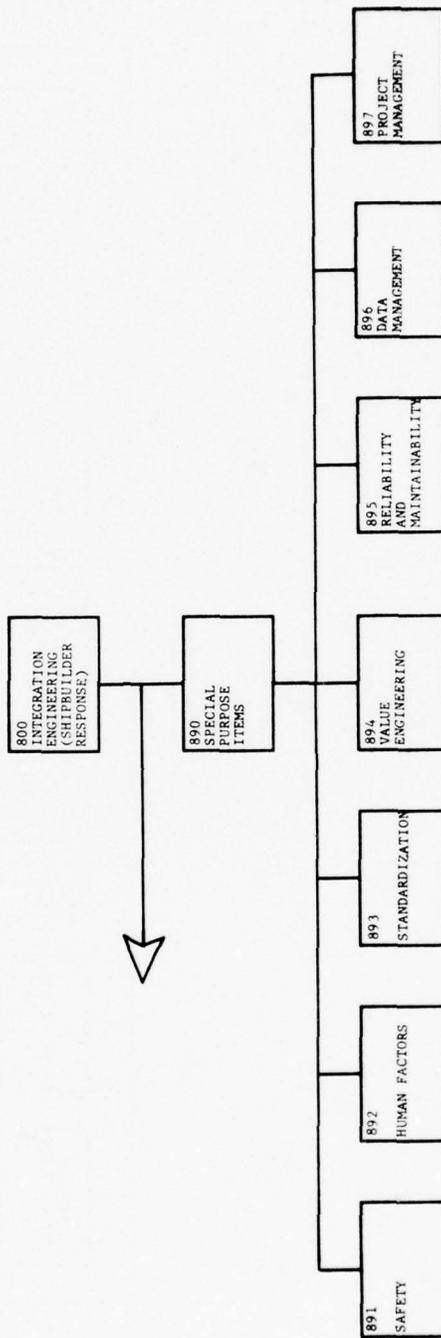












APPENDIX A
COMPONENT DICTIONARY CODE LIST

APPENDIX A
COMPONENT DICTIONARY CODE LIST

CDC LAPL

AA C82 ABANDON SHIP ACCESSORIES AND LIFE BOATS
 AB AB- SUPPORTS, ANTENNA (ELEX)
 AC 94-003 ACOUSTIC DEVICE-SEE ALSO CONTROL ACOUSTIC DEVICE-MINESWEEPING
 AD 02-006 BOILER-AUXILIARY, STEAM, WASTE HEAT
 AE 10-006 METER-ELECTRICAL INDICATING, AC AND DC METERS
 AF 52-013 ACTUATOR-HYDRAULIC SEE ALSO CYL-ACT LINEAR
 AG 61-265 ACTUATOR-PNEUMATIC & ELECTRO-PNEUMATIC
 AH 41-040 CUTTING MACHINE-OXYGEN ACETYLENE
 AI 31-009 CATHODIC PROTECTION EQUIPMENT
 AJ 61-273 ACTUATOR-ELECTRO MECHANICAL
 AK 85-008 ADAPTER-MISSILE HANDLING, CARGO HANDLING
 AL 41-122 AGITATOR-PAINT, SHAKER TYPE
 AM AM- AMPLIFIERS (ELEX/ORD)
 AN AM- AMPLIFIERS (ELEX/ORD)
 AO 33-002 AIR CONDITIONER
 AP NOT ASSIGNED
 AP 88-011 VALVE-TEMPERATURE REGULATING, STEAM CONTROL
 AQ 33-012 AIR CONDITIONER-WINDOW UNIT TYPE
 AR 09-001 CHARGER-BATTERY, AC
 AS 97-006 ANTENNA ASSEMBLY-BICONICAL OR STUB (HM&E/ELEX)
 AS AS- ANTENNAE-SIMPLE & COMPLEX (HM&E/ELEX)
 AT AT- ANTENNAE-SIMPLE (ELEX)
 AU 36-001 ALARMS & SIGNALING DEVICES-HORNS, SIRENS AND WHISTLES, AIR OR STEAM
 AV 41-006 CHARGER-MAGNET, PORTABLE
 AW 36-005 ALARMS & SIGNALING DEVICES-WHISTLE, STEAM OR AIR
 AX 41-046 CENTERING MACHINE-SINGLE SPINDLE
 AY 03-007 COOLER-AIR
 AZ 83-001 SEAL-STERNTURE, SUBMARINE APPLICATION
 AO 88-021 VALVE-BOILER BLOW
 A1 36-003 ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
 A2 23-009 ALARMS & SIGNALING DEVICES-LIGHT, INDICATOR, ELECTRICAL
 A3 61-079 AMPLIFIER-MAGNETIC
 A4 88-023 VALVE-SAFETY RELIEF, INCLUDING VACUUM BREAKERS
 A5 61-082 AMPLIFIER-HYDRAULIC
 A6 822 STEERING AND DIVING TOOLS AND REPAIR PARTS
 A7 823 TOOLS AND EQUIPMENT O2N2 PLANT
 A8 23-006 ANNUNCIATOR-MECHANICAL DROP-AC
 A9 824 PERISCOPES - HOUSING FITTINGS
 BA BA- BATTERY-PRIMARY TYPE (ELEX)
 BB BB- BATTERY-SECONDARY TYPE (ELEX)
 BC C9-005 BATTERY-STORAGE
 BD 37-001 BEARING ASSEMBLY-STERN TUBE & STRUT
 BE 41-001 BALANCING INSTRUMENT-PORTABLE
 BF 85-037 BALL, NUT, & SCREW ASSEMBLY
 BG C4-C02 CONDENSER CHILLER-REFRIGERATION
 BH 37-011 BEARING ASSEMBLY-THRUST, PIVOTED SEGMENTAL, SINGLE OR DOUBLE
 BI 53-001 CAPSTAN-SEE ALSO MOORING ACCESSORIES
 BJ C37 MEDICAL EQUIPMENT-PORTABLE
 BK 83-011 BRAKE-PROPULSION SHAFT (REGARDLESS OF PRIME MOVER)
 BL 37-013 BEARING ASSEMBLY-THRUST AND JOURNAL WITH RESONANCE CHGR
 BM C5-C23 COOLING UNIT-AIR TURBINE DRIVEN
 BN 37-005 BEARING ASSEMBLY-LINE SHAFT
 BO NOT ASSIGNED

CDC LAPL

BP 25-042 BENCH MARK-OPTICAL
BQ 41-097 BENDING MACHINE-POWER OPERATED
BR 93-003 BLENDER-AVIATION FUEL
BS 05-030 TURBOSUPERCHARGER-CENTRIFUGAL BOILER
BT 05-031 TURBINE-GAS
BU 02-001 BOILER-MAIN PROPELLSION, HP STEAM
BV 02-005 BOILER-AUXILIARY, HOT WATER
BW 64-017 FIRE EXTINGUISHER-PORTABLE
BX 88-027 VALVE-COMPRESSOR SHUT OFF
BY C92 TOOLS AND ACCESSORIES
BZ- ALARM UNITS (ELEX)
BO MINOR LANDING CRAFT AND SMALL BOATS (INCL ALL COMMODITY CLASS 72)
B1 43-024 BREAD SLICING MACHINE
B2 99-017 BREATHING APPARATUS
B3 89-001 BUOY-MESSENGER SEE ALSO UNDERWAY REPLEN ACC
B4 03-008 COOLER-AIR
B5 30-001 BURNER-OIL, PRESSURE ATOMIZING, BOILER SERVICE
B6 30-002 BURNER-OIL, PRESSURE ATOMIZING, GUN TYPE
B7 30-004 BURNER-OIL, VAPORIZING PCT
B8 30-005 BURNER-OIL, ROTARY HORIZONTAL
B9 30-007 BURNER-CATALYTIC
CA CA- COMMUTATOR ASSEMBLY-SONAR (ELEX)
CB CB- CAPACITOR BANK (ELEX)
CC 32-019 CABINET, ICE CREAM SEE ALSO REFRIGERATOR
CD 28-005 CABINET, RESOLVER CONTRCL-AUTOMATIC PLOTTING
CE 41-005 CABINET, BLAST CLEANING
CF 85-038 CABLE MACHINERY-DECK
CG CG- CABLE ASSEMBLY-RF (ELEX)
CH C15 GASOLINE AND JP - FUEL SYSTEMS TOOLS AND FITTINGS
CI 43-027 CABINET, DOUGH PROOFING
CJ 54-006 CAMERA-COPYING, LITHOGRAPHIC
CK CK- CRYSTAL KITS (ELEX)
CL 99-002 CARBON DIOXIDE
CM CM- COMPARATOR (ELEX)
CN CN- COMPENSATOR (ELEX)
CO C- CONTROLS (ELEX/ORD)
CO CONTROLS (ELEX/ORD)
CP CP- COMPUTER (ELEX/ORD)
CP COMPUTER (ELEX/ORD)
CQ 85-042 CARRIAGE/CAR/CART/TRACTOR/TRAILOR
CR CR- CRYSTALS (ELEX)
CS 05-032 BASE/ENCLOSURE-GAS TURBINE
CT 41-147 CARTON MACHINE
CU CU- COUPLER (ELEX)
CV CV- CONVERTER (ELEX/ORD)
CV CONVERTER (ELEX/ORD)
CW CW- RADOMES (ELEX)
CX CX- CABLE ASSEMBLIES, NON RF (ELEX)
CY CY- CASES AND CABINETS (ELEX)
CZ 32-003 CHILLER-WATER
CO 88-029 VALVE-REGULATING, WATER FLOW, FOR REFRIGERATION SYSTEMS
C1 76-004 CHLORINATOR
C2 31-032 CHOCK-ROLLER, DECK AND STERN
C3 14-001 CIRCUIT BREAKER-NAVY TYPE AOB AND AOBLF
C4 14-002 CIRCUIT BREAKER-NAVY TYPE NOB AND NLF
C5 14-003 CIRCUIT BREAKER-NAVY TYPE ACB

CDC LAPL

C6 14-004 CIRCUIT BREAKER-NAVY TYPE ALB
C7 14-006 CIRCUIT BREAKER-OTHER THAN AQB, NOB, ACB,ALB TYPES
C8 41-148 CLEANING MACHINE-ALL TYPES EXCEPT BLAST CLNG CAB
C9 59-006 CLOSER-DOOR HYDRAULIC
DA DA- DUMMY LOAD (ELEX)
DB 33-007 DAMPER-ACTUATOR AND POSITIONER
DC 40-006 DAMPER-VENT, COMBUSTION CONTROL
DD 56-001 DAVITS, ALL TYPES
DE 28-003 DEAD RECKONING EQUIPMENT
DF 85-024 DEFLECTOR, JET BLAST
DG 46-012 DEGAUSSING MAGNETIC MEASUREMENT SYSTEM
DH 41-011 DEGREASER
DI D- DISPENSER-CHAFF (ELEX)
DJ 44-002 DEHUMIDIFIER-DESICCANT ELECTRIC
DK 44-009 DEHUMIDIFIER-SPACE, MECH REFRIG SELF CONTAINED
DL 32-005 DEHYDRATOR-REFRIGERATION
DM 44-001 DEHYDRATOR-FILER, DESICCANT, HGH PRES AIR, SELF REAC
DN 44-004 DEHYDRATOR-NON REACTIVATING
DO NOT ASSIGNED
DP C8-007 DEMINERALIZER-WATER, ION EXCHANGE
DQ 99-027 DESUPERHEATERS-ALL TYPES
DR C6-205 COMPRESSOR UNIT-AIR
DS 33-005 CAMPER-MECHANICAL EXHAUST VENTILATION SYS
DT DT- DETECTING HEADS (ELEX)
DU 54-021 DEVELOPING MACHINE-BLACK AND WHITE PROCESS
DV 43-001 DISH WASHING MACHINE
DW 41-049 DISINTEGRATING MACH-METAL, ELEC ARC
DX 32-014 DISPENSER-DRINKING WTR SEE ALSO DRNG FTN(67-006)
DY DY- DYNAMOTORS (ELEX)
DZ 32-032 DISPENSER-MECHANICALLY REFRIGERATED, MILD
DO C9-002 CHARGER-BATTERY, D.C.
D1 41-146 DISPENSER-TAPE, ELECTRIC
D2 32-031 DISPLAY CASE-MECH REF,SELF CONTND/NON-REFR
D3 C6-002 COMPRESSOR-RECIPROCATING
D4 C8-001 DISTILLATION UNIT
D5 52-015 DESURGER-HYDRAULIC
D6 32-027 DISPENSER-MECH REF,OTHR THN MLK SEE CAB,ICE CR/FREEZR
D7 C9-005 DISTILLATION UNIT-VAPOR COMPRESSION
D8 85-011 DOLLY-BOATSTORAGE SEE ALSO TRK/DOLLY/CRADLE ASS
D9 31-034 DOOR-ROLLER CURTAIN, SHIPBRD, HAND CR PWR CPER
EA 74-001 EDUCTOR-LIQUID
EB 49-001 CARBURETOR
EC 73-010 EJECTOR-GARBAGE AND TRASH DISPOSAL
ED C7-011 HEATER-FLUID
EF 88-031 VALVE-BURBLER
EG 73-012 EJECTOR-SIGNAL
EH 73-001 EJECTOR ASSEMBLY-AIR
EH E- HOISTS (ELEX)
EI NOT ASSIGNED
EJ 11-003 CONVERTER
EK 849 NITROGEN CHARGING ASSEMBLY
EL 59-001 ELEVATOR-ELECTRO MECHANICAL
EM 15-013 CONTROLLER-AC
EN 16-010 GENERATOR-GAS
EO NOT ASSIGNED
EP 59-002 ELEVATOR-AIRCRAFT LIFTING

CDC LAPL

EQ 41-050 EMBOSsing MACHINE-METAL & CRDBRD ALSO OFF MACH ACC
ER 16-012 BENCH-LIQUID OXYGEN CONVERTER FILL
ES 66-001 ENGINE-DIESEL, SHIP PROPULSION AND SHIP'S SERVICE, 2 & 4 CYCLE
ET 22-022 SWITCHBOARD-MINESWEEPING
EU 88-037 VALVE-REFRIGERATION SHUT OFF, SMALLER THAN 3/4 IN
EV 66-005 ENGINE-DIESEL, 2 & 4 CYC, TYPE B
EW 16-014 BOOSTER-GAS
EX 66-006 ENGINE-DIESEL, AOA-MAGNETIC MINESWP PROP & AUX 4 CYC
EY 66-017 ENGINE-GASOLINE AIR OR FLUID COOLED
EZ 18-007 MOTOR GENERATOR
EO 88-042 VALVE-FLOAT, LIQUID LEVEL CONTROL, REFRIGERATION SYSTEMS
E1 66-019 ENGINE-GASOLINE, BOAT PROP, OUTBOARD MOTOR
E2 66-020 ENGINE-STEAM, RECIPROCATING, MN PROP & AUX SERVICE
E3 88-044 VALVE-STEAM SEAL MANIFOLD
E4 88-045 VALVE-GUARDING
E5 41-051 ENGRAVING MACHINE PANTOGRAPH
E6 59-005 ESCALATOR
E7 09-011 EXCHANGER, ION
E8 93-001 EXPANSION JOINTS-PIPE, PACKLESS
E9 88-046 VALVE-TRIP THROTTLE
FA 40-001 FAN-VANE AXIAL AND/OR TUBE AXIAL
FB 18-009 MOTOR GENERATOR
FC 40-002 FAN-CENTRIFUGAL
FD 20-002 RHEOSTAT
FE 40-003 FAN-CIRCULATING
FF 40-009 FAN-CENTRIFUGAL, CARBON DIOXIDE REMOVAL SYS
FG 99-020 FEEDRAIL-BRIDGE CRANE
FH 41-076 FILING MACHINE-SAW, BLADE
FI C56 BOILER FEEDWATER TEST AND TREATMENT
FJ 09-010 FILLER-PORTABLE BATTERY WATER
FK 48-002 FILTER-FLUID, PRESSURE
FL F- FILTER UNITS (ELEX)
FM 20-006 RHEOSTAT
FN FN- FURNITURE (ELEX)
FO NOT ASSIGNED
FP 88-043 VALVE-CROSSOVER AND MANIFOLD
FQ 43-034 FILTER-COOKING GREASE
FR FR- FREQUENCY MEASURING DEVICES (ELEX)
FS C55 FUEL OIL STOWAGE AND EQUIPMENT
FT 31-023 FITTINGS-HULL SEE ALSO TOWING-ACC, MOORING ACC
FU 24-002 FIXTURE-LIGHTING
FV 48-006 FILTER-AIR, WET OR DRY ELEMENTS
FW 76-003 FILTER-WATER PURIFICATION
FX 31-012 FLAME ARRESTER-VENTILATION
FY 54-015 FOLDING MACHINE-PAPER
FZ 43-012 GRINDERS AND CUTTERS-FOOD ELECTRICAL
FO 16-011 FURNANCE ASS OXY CANDLE ROUND AND SQUARE
F1 43-059 FOOD WARMER-RADIANT, OVERHEAD, ELECTRIC
F2 41-016 FORGE-OIL BURNING ELEC OR OTHER ALSO FURNACE
F3 41-053 FORGING MACHINE-HAMMER VERTICAL
F4 41-017 FORMING MACHINE-SHEET METAL
F5 54-004 FRAME PRINTING
F6 43-006 FRYERS-DEEP FAT, ELECTRIC
F7 85-046 FUEL DISPERSING SYS
F8 41-019 FURNANCE- ELECTRIC
F9 41-020 FURNANCE-OIL BURNING

CDC LAPL

GA 45-003 GAGE-LIQUANTITY MECHANICAL SEE ALSO INDICATOR AND METER
GB 45-004 GAGE-LIQUID QUANTITY HYDRAULIC/PNEUMATIC
GC 45-007 GAGE-PRESSURE
GD 45-009 GAGE-DEPTH SUBMARINE
GE 43-002 GALLEY EQUIPMENT-ELECTRICAL
GF 43-009 GARBAGE DISPOSAL MACHINE
GG 31-005 GATE-STERN SEE ALSO DOOR OR HATCH
GH G- GENERATOR-POWER (ELEX)
GI B67 OPERATING GEAR MISCELLANEOUS REPAIR PARTS
GJ 43-047 DOUGHNUT MACHINE-CUTTING AND FRYING
GK 69-028 GEAR-TURNING/JACK DEVICE
GL 69-029 GEAR-TILTING
GM 69-006 GEAR ASSEMBLY-SPEED DECREASER, MAIN PRCP SERVICE
GN 69-016 GEAR ASSEMBLY-SPEED DECREASER, AUX SERVICE
GO GO- GONICMETERS (ELEX)
GP GP- GROUND RODS (ELEX)
GQ B51 BOILER FEEDWATER SYSTEM CONTROL FITTINGS
GR 23-008 SEMAPHORE-MECHANICAL SIGNAL
GS 43-044 GALLEY UNITS-COMPACT
GT 16-006 GENERATOR-DC OR AC
GU 24-004 FIXTURE-LIGHTING FLUORESCENT
GV 24-006 FIXTURE-LIGHTING MERCURY VAPOR
GW 16-008 GENERATOR-SMOKE, MECHANICAL
GX 16-009 GENERATOR-OXYGEN/NITROGEN
GY 16-001 GENERATOR-BATTERY CHARGING
GZ 70-001 GOVERNOR-MECHANICAL
GO FUEL GELLING UNIT MIG - 10
G1 70-005 GOVERNOR-HYDRAULIC
G2 88-072 GOVERNOR-PUMP
G3 70-013 GOVERNOR-ELECTRO HYDRAULIC
G4 70-014 GOVERNOR-ELECTRIC
G5 23-004 SEARCHLIGHT-SIGNAL
G6 41-057 GRINDING MACHINE-CYCLINDRICAL
G7 41-060 GRINDING MACHINE-GLASS
G8 41-063 GRINDING MACHINE-VALVE
G9 41-065 GRINDING MACHINE-SURFACE, RECIPROCATING
HA 85-031 HANDLING GEAR-GUIDANCE CAPSULE
HB 85-045 HANGAR-AIRCRAFT
HC HC- HOLDER, CRYSTAL (ELEX)
HD H- ENVIRONMENTAL APPARATUS (ELEX)
HE C7-002 HEATER-FLUID, FUEL OIL AND LUBE OIL, STEAM HEATED
HF C7-003 HEATER-WATER AND AIR
HG 26-015 PROJECTOR-MOTION PICTURE, SOUND, SUPER 8MM
HH 07-004 HEATER-WATER, STM/HT WTR HTD, INST, STM WTR CVTR
HI 07-001 HEATER-FLUID, SEA WATER, STEAM HEATED
HJ 07-005 HEATER-FLD, DEAERATING, BOILER FDWTR, TYPES I & II
HK C7-006 HEATER-IMMERSION, ELECTRIC
HL 07-007 HEATER-SPACE ELEC, TYP D RADIANT, TYPE T TUR,RAD PANL
HM 26-016 PROJECTOR-MOTION PICTURE, SOUND, SUPER 16MM
HN 07-013 HEATER-WTR, ELECTRIC STORAGE TYPE
HO NOT ASSIGNED
HP 07-016 HEATER-COOLANT ENGINE, OIL FIRED OR ELECTRIC
HQ 07-022 HEATER-VENTILATION, VENT DUCT, ELEC, TYP 51-61
HR 07-023 HEATER-SPACE ELECTRIC, BLOWER, TYPE B
HS H- HEAD, HAND, AND CHEST SETS (ELEX)
HT 07-017 HEATER-AIR CIRCULATING UNIT, STEAM OR HT WTR HTD

CDC LAPL

HU 07-045 HEATING ELEMENTS-ELEMENTS-ELECTRICAL
HV 07-036 HEATING UNIT-ELEC. CONTRLD TEMP FOR STRSS RELF PRHTG
HW 58-001 HOIST-WIREROPE ELECTRIC
HX 58-002 HOIST-MANUAL
HY 58-003 HOIST-ELECTRO HYDRAULIC & ELECTRO-MECHANICAL
HZ 58-004 HOIST-CHAIN ELECTRIC
HO 61-116 HYDROSTAT. CONTRCL
H1 58-005 HOIST-PNEUMATIC
H2 58-006 HOIST-HYDRAULIC
H3 85-025 HOIST-WINDSCREEN
H4 87-009 HOIST-RODMETER. U/W LOG
H5 52-033 HOIST ASSEMBLY-CYL & RAM TYP FOR COMMUN MAST
H6 41-069 HOISTING MACHINE-HORIZONTAL OR VERTICAL
H7 33-010 HUMIDIFIER
H8 52-016 HYDRAULIC MECHANISM SEE ALSO MISSLE FNDG SYS-HYD
H9 31-033 HYDROFIL ASSEMBLY
IA 64-018 FIRE EXTINGUISHING SYSTEM
IB 66-002 ENGINE-DIESEL. TWO CYCLE
IC 865 IC COMMUNICATION EQUIPMENT
ID ID- INDICATOR-NON CATHODE RAY TUBE (ELEX/CRD)
IO INDICATOR-NON CATHODE RAY TUBE (ELEX/CRD)
IE 66-018 ENGINE-GASOLINE
IF 66-021 ENGINE-DIESEL. NONMAGNETIC
IG 66-022 ENGINE-DIESEL. MODEL 645
IH 69-026 GEAR ASSEMBLY-SPEED INCREASER
II 71-001 DISTRIBUTOR-IGNITION SYSTEM
IJ 73-011 EJECTOR-SEWAGE
IK 78-018 COUPLING ASSEMBLY
IL IL- INSULATORS (ELEX)
IM IM- INTENSITY MEASURING DEVICES (ELEX)
IN 79-003 MUFFLER-DRY
IO NOT ASSIGNED
IP IP- INDICATORS-CATHODE RAY TUBE (ELEX)
IO 83-015 CONTROL BOARD-CONTROLLABLE PITCH PROPELLER. EMER. PITCH CONTROL
IR 91-004 LAUNDRY PRESS-COMMERCIAL
IS 859 AIR CONDITIONING REFRIGERATION TOOLS AND ACCESSORIES
IT 92-020 TANK-LUBE OIL STORAGE AND CONDITIONING ASSEMBLY
IU 94-004 ACOUSTIC DEVICE
IV 94-005 ACOUSTIC DEVICE
IW NOT ASSIGNED
IX 97-012 SUB ASSEMBLIES-PERISCOPE
IY 97-018 CAMERA ACCESSORIES-PERISCOPE
IZ 99-029 RECEIVER-FUELING PROBE
IO NOT ASSIGNED
II NOT ASSIGNED
I2 864 NAVIGATIONAL SIGNAL LIGHTS
I3 NOT ASSIGNED
I4 NOT ASSIGNED
I5 NOT ASSIGNED
I6 NOT ASSIGNED
I7 NOT ASSIGNED
I8 NOT ASSIGNED
I9 NOT ASSIGNED
JA 43-028 ICE CREAM CUP FILLING MACHINE- HAND OPERATED
JB 32-017 ICE CREAM FREEZER-PWR OPER WITH INTGRL MCH REF EQ
JC 32-022 ICE MAKING MACHINE-MECH REFRIG SELF CONTAINED

CDC LAPL

JD J- INTERFACE UNITS (ELEX)
JE 32-004 ICE MAKING PLANT
JF 41-032 IMPREGNATING EQUIPMENT
JG 30-006 INCINERATOR SEE ALSO BURNER
JH 27-008 SALINITY INDICATING EQUIPMENT
JI NOT ASSIGNED
JJ 38-002 INDICATOR-TEMPERATURE, ELECTRICAL
JK 28-028 NAVIGATION EQUIPMENT
JL 38-007 INDICATOR-BOILER SMOKE
JM 38-014 INDICATOR-SALINITY & SALINITY CELL
JN 38-015 INDICATOR-PRES DIFFERTL, LIO/STM LVL, DIR OR REM
JO NOT ASSIGNED
JP 38-016 INDICATOR-MECHANICAL TACHOMETER
JQ 38-020 INDICATOR-LIO LVL, FLOW, WATER AND FUEL
JR 45-001 INDICATOR-SIGHT LIQUID, FLAT
JS 45-002 INDICATOR-SIGHT LIQUID, TUBULAR
JT 45-005 INDICATOR-METER, DIFFERENTIAL PRESSURE
JU 61-025 INDICATOR-PORTABLE SHIP CONTROL
JV 41-111 VULCANIZER - RUBBER COVERED CABLE
JW 29-001 INJECTOR- FUEL DIESEL ENGINE NOZZLE NCN-MET TYP
JX 29-002 INJECTOR-FUEL, DIESEL ENGINE, UNIT METERING AND PRES
JY 43-060 INJECTOR-RINSE AGENT FOR DISHWASHING MACHINE
JZ 887 MEASURING AND INDICATING INSTRUMENTS
JO 31-011 TENSION UNIT-HYDRAULIC RAM
J1 27-009 INTERCOMMUNICATION STATION
J2 97-002 MAST-ANTENNA
J3 97-013 MAST-SNORKEL
J4 689 NUCLEAR POWER PLANT - COOLANT DISCHARGE SYSTEM VALVE
J5 85-035 JACK ASSEMBLY-HAND, SCREW, HYDRAULIC/PNEUMATIC OPR
J6 41-034 JOINTER-WOODWORKING
J7 27-010 TELEPHONE EQUIPMENT-DIAL
J8 43-008 KETTLE-STEAM JACKETED
J9 41-070 KEY DUPLICATING MACHINE
KA 40-004 DRIER-HAND, ELECTRIC
KB 86-003 DRIER-PHOTOGRAPHIC
KC 41-014 DRILLING MACHINE-FLOOR OR BENCH
KD 43-050 TABLE-FOOD WARMER, ELECTRIC/STEAM HEATED
KE 54-014 DRILLING MACHINE-PAPER
KF 67-006 DRINKING FOUNTAIN
KG 52-001 DRIVE ASSEMBLY-ELECTRO HYDRAULIC AMMUN HOIST
KH 52-004 DRIVE ASSEMBLY-ELECTRO HYD HST, VERT TUB., 12.75RKT
KI 16-005 TACHOMETER SEE ALSO INDICATOR-MECHANIC TACHOMETER
KJ 52-007 DRIVE ASSEMBLY-ELECTROHYDRAULIC HOIST, 3000# MIS TRAV
KK 88-063 VALVE-PRESSURE REGULATING
KL 85-004 DRIVE ASSEMBLY-SLIDING BLOCK
KM 91-008 DRY CLEANING PRESS
KN 91-007 DRY CLEANING UNIT ASS-AUTO, SYNTHET SOLVENT TYPE
KO NOT ASSIGNED
KP 54-018 DRYING MACHINE BLUEPRINT
KQ 91-002 DRYING TUMBLER-LAUNDRY
KR 59-003 DUMBWAITER
KS 54-002 DUPLICATING MACHINE-OFFSET SEE ALSO CFF MACH ACC
KT 41-015 DYNAMOMETER
KU 41-131 TANK-HOT DIP
KV 92-005 TANK-DIESEL ENGINE, AIR STARTING
KW 92-001 TANK-STCRAGE

CDC LAPL

KX 88-104 VALVE-STOP CHECK
KY KY- KEYING DEVICES (ELEX)
KZ 88-117 VALVE SUBPLATE
K0 88-125 VALVE-PRESSURE CONTROL
K1 88-129 VALVE-PRESSURE REGULATING
K2 88-130 VALVE-HYDRAULIC CONTROL
K3 01-010 PUMP, ROTARY PISTON, FIXED OR VARIABLE DELIVERY
K4 88-134 VALVE-SHUTTLE
K5 88-135 VALVE-HYDRAULIC
K6 88-138 VALVE-CHECK, INLINE, UNDER \$25.00
K7 01-025 PUMP, PORTABLE SUBMERSIBLE
K8 88-142 VALVE-CHECK, INLINE, \$25.00 AND ABOVE
K9 88-158 VALVE-TEST CASTING
LA 24-009 LANTERN-ELECTRIC, BATTERY TYPE
LB 41-036 LATHE-METAL WORKING
LC LC- TOOLS-LINE CONSTRUCTION (ELEX)
LD 91-012 LAUNDRY EQUIPMENT
LE 23-002 LIGHT-INDICATOR
LF 24-008 LIGHT-NAVIGATIONAL MARINE
LG 54-024 LIGHT-ARC PHOTOLITHOGRAPHIC
LH 16-015 LIQUIDIFIED GAS STORAGE AND CHARGING SYS
LI NOT ASSIGNED
LJ 54-007 LITHOGRAPHIC, NEGATIVE AND PLATE MAKING
LK 99-020 LOCK-ELECTROMECHANICAL
LL 28-018 LOCKER-BINOCULAR DRYING
LM 26-013 LOUDSPEAKER-MOTION PICTURE PROJECTOR
LN 65-001 LUBRICATOR-MECHANICALLY OR HAND OPERATED
LO NOT ASSIGNED
LP 65-002 LUBRICATOR-AIR OPERATED
LO C16 LADDERS AND ACCESS CLOSURE EQUIPMENT
LR 845 LUBE OIL PIPING SYSTEM REPAIR PARTS
LS LS- LOUDSPEAKERS (ELEX)
LT 41-037 LATHE-WOODWORKING
LU 88-159 VALVE-DISTRIBUTOR LUBRICATION
LV 41-141 UNDERCUTTER - ARMATURE, MICA, ELECTRICAL OPERATED
LW C20 UNDERWAY REPLENISHMENT TOOLS AND ACCESSORIES
LX 32-008 UNION TUBE - REFRIGERATION
LY 43-005 UPNS -COFFEE
LZ 88-162 VALVE-SHEARING
LO 88-169 VALVE-LINE BLIND
L1 LAUNCHER STAND-WEAPON SYSTEM
L2 LAUNCHER GUIDES-WEAPON SYSTEM
L3 TRAIN ASSEMBLY-WEAPON SYSTEM
L4 ELEVATION ASSEMBLY-WEAPON SYSTEM
L5 AMPLIFIER, POWER DRIVE-WEAPON SYSTEM
L6 RAMMER-LOADER ASSEMBLY-WEAPON SYSTEM
L7 88-170 VALVE AND TRAP MANIFOLD
L8 88-177 VALVE-SPECIAL STOP CHECK
L9 88-186 VALVE-FLW FUSE
MA MA- MAGAZINE-MAGNETIC TAPE OR WIRE (ELEX)
MB 68-001 MAGNETO-IGNITION
MC 32-006 MANIFOLD-REFRIGERATION
MD MD- MODULATORS, DEMODULATORS, AND DISCRIMINATORS (ELEX)
ME ME- METERS (ELEX)
MF MF- MAGNETS OR MAGNETIC FIELD GENERATORS (ELEX)
MG 45-008 MANOMETER-U TUBE AND OTHER TYPES

CDC LAPL

MH 91-006 MARKING MACHINE-LAUNDRY
MI M- MICROPHONES (ELEX)
MJ 85-030 MAST-HINGED
MK MK- MISCELLANEOUS KITS (ELEX)
ML ML- METEOROLOGICAL DEVICES (ELEX)
MM 43-016 MEAT SLICING MACH-ELEC & MANUAL SEE ALSO FOOD CUTTER
MN 43-021 MEAT TENDERIZER-ELECTRIC
MO NOT ASSIGNED
MP 10-001 METER-VOLUMETRIC, POS DISPL, FUEL OIL, WTR, GAS, JP-5, AL T
MQ 10-002 METER-FLOWRATE INDICATING, FLOAT TYPE RECTAMETER
MR 10-003 METER-IMPELLER TYPE LIQUID VELOCITY
MS 10-004 METER-VENTURI TYPE
MT MT- MOUNTINGS (ELEX)
MU MU- MEMORY UNITS (ELEX)
MV 41-042 MILLING MACHINE-HORIZONTAL
MW 41-043 MILLING MACHINE-WOODWORKING, VERTICAL, RCRING
MX MX- MISCELLANEOUS EQUIPMENT (ELEX)
MY 41-038 MIXER-LIQUID, PORTABLE
MZ 43-004 MIXING MACHINE-ELECTRIC, FOOD AND FLUID
MO 29-031 SEXTANT, MARINE
MI 43-035 MOLDING MACHINES-MEAT, FISH
M2 C26 ANCHORING AND MOORING APPLIANCES
M3 41-089 MORTISER-HOLLOW CHISEL
M4 17-023 MOTOR-AC/DC 0.25 HORSEPOWER AND SMALLER
M5 31-039 SONAR DOME WINDOW SYSTEM
M6 10-005 METER-FLOWRATE INDICATING, VANE TYPE
M7 17-001 MOTOR-AC OR DC
M8 31-040 TENSIONING DEVICE-TORSION BAR
M9 E32 MISCELLANEOUS FLAG ALLOWANCES, OFFICE MACHINES
NA 32-021 CARBONATOR-SODA FOUNTAIN
NB 13-013 TRANSFORMERS-REPAIRABLE AND NON-REPAIRABLE
NC 32-025 ICE CREAM FREEZER
ND 33-004 CHILLER-WATER, AIR CONDITIONING
NE 61-080 AMPLIFIER-ELECTRONIC
NF 52-005 TRANSMISSION-HYDRAULIC, FIXED OR VARIABLE DELIVERY SEE ALSO POWER UNIT
NG 69-011 TRANSMISSION-MECHANICAL
NH 27-005 TRANSMITTER-MECHANICAL
NI NOT ASSIGNED
NJ 27-006 TXMTR-LIC LVL AND/OR FLOW, CAP, FLOAT, IND, RADIOACT, RES AND SONIC TYPE
NK 27-021 TRANSMITTER-LIQUID LEVEL, ELECTRICAL
NL 28-024 TRANSMITTER-NAVIGATIONAL
NM 61-085 TRANSMITTER-TEMPERATURE SEE ALSO INDICATOR - TEMPERATURE, ELEC RESIST
NN 27-001 TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
NO NOT ASSIGNED
NP 54-022 PRINTING MACHINE-BLUEPRINT
NQ 85-043 STAND-MISSILE
NR 88-192 VALVE-PRESSURE REGULATING, HIGH PRESSURE AIR
NS STEEL PLATE
NT 88-193 VALVE-FLOW CONTROL
NU 88-201 VALVE-OFFICE
NV 77-001 TRAP-STEAM AND/OR AIR
NW 37-016 BEARING-JOURNAL, PIVOTED PAD/SHOE
NX 38-021 INDICATING SYSTEM-LIQUID LEVEL, PNEUMATIC
NY 41-002 BALANCING MACHINE-DYNAMIC, STATIC, HORIZONTAL
NZ 41-031 MACHINE-HOSE ASSEMBLY, REPAIR AND CUTOFF
NO 93-004 NOZZLE-PRESSURE FUEL SERVICING

CDC LAPL

PF PF- FITTINGS-POLE (ELEX)
PG PG- PIGEON ARTICLES (ELEX)
PH PH- PHOTOGRAPHIC ARTICLES (ELEX)
PI 97-011 PERISCOPE-STADIMETER
PJ 50-010 PANEL-POWER DISTRIBUTION AND/OR CONTRCL (HM&E/ORD)
PJ PANEL-POWER DISTRIBUTION AND/OR CCNTRCL (HM&E/ORD)
PK PANEL-INDICATING (HM&E/ORD)
PK 50-025 PANEL-INDICATING (HM&E/ORD)
PL PL- PLUG-IN UNITS (ELEX)
PM 41-072 PAPER SHREDDING MACHINE SEE ALSO OFF MACH ACC
PN 25-004 PELORUS STAND SEE ALSO NAVIGATION EQUIPMENT ACC
PO NOT ASSIGNED
PP PP- POWER SUPPLY-NONROTATING MACHINE TYPE (ELEX)
PO 97-008 PERISCOPE-COLLIMATOR
PR 97-009 DEPLUMERS, FAIRINGS AND SUPPORTS FOR SUBMARINE PERISCOPES AND MASTS
PS 50-009 PANEL-ALARM
PT PT- MAPPING AND PLOTTING UNITS (ELEX)
PU PU- POWER SUPPLY-ROTATING (ELEX)
PV 41-047 CLEANING MACHINE-CLOCK AND WATCH
PW 41-073 PINKING MACHINE
PX 848 PIPING SYSTEM HARDWARE
PY 41-091 PLANER-METAL CUTTING
PZ 97-010 PERISCOPE-SEXTANT
PO 11-009 POWER SUPPLY-AN/SQS-26 SONAR
PI 28-029 PLOTTING TABLE, MK NC2 MODO,2 & 3 SEE ALSO NAVIG EQ (HM&E/ORD)
PI PLOTTING TABLE, MK NC2 MODO,2 & 3 SEE ALSO NAVIG EQ (HM&E/ORD)
P2 836 SANITATION EQUIPMENT AND REPAIR PARTS
P3 27-011 PNEUMATIC TUBE SYSTEMS-COMMUNICATION
P4 41-093 POLISHER-METALLURGICAL
P5 41-095 POSITIONER-WELDING
P6 41-094 POT-MELTING, ELEC
P7 97-001 PERISCOPE-SUBMARINE
P8 11-001 POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
P9 41-008 CLEANER-STEAM PRESSURE JET
QA 54-010 PRINTING MACHINE-HEAT DEVELOPING
QB 54-005 PRINTING PRESS-OFFSET
QC 54-008 PRINTING PRESS-LETTER PRESS
QD 54-019 PRINTING PRESS-LETTER
QE 54-025 PRINTING PRESS-PROOF
QF 99-028 PROBE AND CARRIER-FUELNG SEE ALSO FUEL CIL SYS ACC
QG 54-017 PROCESSING MACHINE-BLUE PRINT
QH 86-013 PROCESSING MACHINE-PHOTOGRAPHIC FILM
QI NOT ASSIGNED
QJ 61-117 PROGRAM CONTRCLLER
QK 26-001 PROJECTION EQUIPMENT-MOTION PICTURE
QL 26-002 PROJECTION EQUIPMENT-STILL PICTURE
QM 83-030 PROPELLER ASSEMBLY-CONSTANT PITCH
QN 64-007 RECHARGING UNIT-CO2 PUMPING METHOD
QO NOT ASSIGNED
QP 89-002 RESCUE CHAMBER AND RECOMPRESSION TANK
QO 55-002 REELING MACHINE-HOSE
QR 32-039 REFRIGERATION SYSTEM-ABSORPTION
QS 83-034 PROPELLER ASSEMBLY-CONTROLLABLE PITCH
QT 64-008 PROPORTIONER-FOAM LIQ SEE ALSO DAMAGE CONTRL ACC
QU 83-043 PROPULSION DRIVE UNIT-STERN
QV 01-038 PUMP UNIT-PUMP AND ACCESSORIES INSTALLED AS A UNIT

CDC LAPL

CW 88-213 VALVE-OVERFLOW
OX 01-011 PUMP-CENTRIFUGAL, POWER DRIVEN
OY 32-023 REFRIGERATION-MECHANICAL
OZ 42-001 REGULATOR-ELECTRICAL (EXCEPT ENGINE GENERATOR)
Q0 88-231 VALVE-CROSS
Q1 01-017 PUMP-CENTRIFUGAL, POWER DRIVEN, CLOSE-COUPLED OR COUPLING DESIGN
Q2 88-245 VALVE-DIRECTIONAL INTERLOCK
Q3 88-248 VALVE-PILOT, PNEUMATIC OPERATED
Q4 01-001 PUMP-CENTRIFUGAL, BOILER FEED
Q5 88-249 VALVE-CONTROL THERMAL
Q6 41-048 CLEANING MACHINE-ELECTRIC AND OILBURNING
Q7 88-251 VALVE-LOW PUMP SECTION, SAFETY TRIP
Q8 88-252 VALVE-CONTROL AIR
Q9 01-014 PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY
RA 58-007 RACK-READY SERVICE
RB 52-029 RAM-HYDRAULIC
RC RC- REELS (FLEX)
RD RD- RECORDER/REPRODUCERS (ELEX)
RE RE- RELAY ASSEMBLY UNITS (ELEX/ORD)
RF RE- RELAY ASSEMBLY UNITS (ELEX/ORD)
RF RF- RADIO FREQUENCY COMPONENTS (ELEX)
RG RG- CABLES, RF BULK-(ELEX)
RH 16-013 RECONDENSER SYSTEM-NITROGEN AND OXYGEN
RI 834 COMMISSARY EQUIPMENT
RJ 32-007 REFRIGERATION PURGE UNIT
RK 46-010 RECORDER-PNEUMATIC AND ELECTRO-PNEUMATIC
RL RL- REELING MACHINES (ELEX/ORD)
RL REELING MACHINES (ELEX/ORD)
RM 41-084 CLEANING MACHINE-TANK
RN 55-003 REEL-HOSE
RO RO- RECORDERS (ELEX/ORD)
RO RECORDERS (ELEX/ORD)
RP RP- REPRODUCERS (ELEX)
RQ 32-029 REFRIGERATED TANK-FILM PROCESSING
RR RR- REFLECTORS-EXCEPT ANTENNA REFLECTORS (ELEX)
RS 32-001 REFRIGERATION SYSTEM-MECHANICAL
RT RT- RECEIVER & TRANSMITTER (ELEX)
RU C88 DAMAGE CONTROL EQUIPMENT AND ACCESSORIES
RV R- RECEIVERS (ELEX)
RW 42-002 REGULATOR-ENGINE GENERATOR, BATTERY CHRG. ELECTROMECH
RX 42-007 REGULATOR-ENGINE GENERATOR, BATTERY CHRG. ELEX
RY 42-100 REGULATOR-PRESSURE
RZ 42-101 REGULATOR-FLPW, BOILER FEED WATER
P0 88-253 VALVE-LINEAR DIRECTIONAL CONTROL WITH ACTUATOR
R1 42-102 REGULATOR-FLCW, FLOAT OPERATED, DRAIN/MAKE-UP VLV
R2 42-104 REGULATOR-PRESSURE OXYGEN SERVICE
R3 99-004 RECEPTACLE ASSEMBLY-CO2 ABSORBENT
R4 41-067 GRINDING MACHINE-UTILITY
R5 20-003 RESISTOR-VARIABLE
R6 20-004 RESISTOR-FIXED
R7 41-104 REWINDING AND INSULATION MACHINES
R8 20-001 RHEOSTAT
R9 88-254 VALVE-REGULATING, COMPRESSED GAS
SA SA- SWITCHING UNITS (ELEX)
SB SB- SWITCHBOARDS (ELEX)
SC 41-112 SANDER-BELT, DISK AND SPINDLE

CDC LAPL

SP 67-008 SANITATION EQUIPMENT SEE ALSO TOILET-MARINE
SE 41-114 SAW-ABRASIVE-DISC, MASONRY
SF 41-115 SAW-BAND
SG GENERATOR-SIGNAL (ELEX/ORD)
SG SG- GENERATOR-SIGNAL (ELEX/ORD)
SH S- SHELTER (ELEX)
SI 54-016 COMPOSING MACHINE-PHOTO PRINTING
SJ 41-120 SAW- POWER HACK
SK 43-017 SAW BAND, MEAT CUTTING
SL 41-078 SAW SETTING MACHINE
SM SIMULATORS (ELEX/ORD)
SM SM- SIMULATORS (ELEX/ORD)
SN SN- SYNCHRONIZERS (ELEX)
SO NOT ASSIGNED
SP 83-010 SEAL-SWIVEL JOINT TYPE
SQ 41-145 SEALING MACHINE-HEAT
SR 07-029 HEATER-SPACE, MULTI-FUEL WITH BLOWER
SS 87-006 SELECTOR-SPEED SENSITIVITY
ST ST- STRAPS (ELEX)
SU SU- OPTICAL UNITS (ELEX)
SV 67-010 SEWAGE TREATMENT SYSTEM-MULTI TOILETS OR URINALS
SW 41-080 SEWING MACHINE-HOUSEHOLD AND INDUSTRIAL
SX 83-017 SHAFT-PROPULSION, SHIP
SY 41-119 SAW-JIG, WOOD WORKING
SZ 83-002 SEAL-STERN TUBE SHAFT
SO 43-023 SINK-SCULLERY
SI 41-123 SHAPER-METAL CUTTING AND WOODWORKING
S2 41-096 BENDING OR FOLDING MACHINE-MANUAL
S3 99-007 SHELL-MISSILE TUBE
S4 85-014 SHOCK ABSORBER-GAS, CIL OR PNEUMATIC
S5 41-081 SHOE FINISHING AND STITCHING MACHINE
S6 391 SHOP EQUIPMENT AND ACCESSORIES ON SHIPS
S7 40-005 SHUTTER
S8 41-125 SIEVE-FCUNDRY
S9 43-052 SIFTING MACHINE-FLOUR, ELECTRIC
TA TA- TELEPHONE APPARATUS (ELEX)
TB TB- TOWED BODY (FLEX)
TC TC- TOWED CABLE (ELEX)
TD TD- TIMING DEVICES (ELEX)
TE 92-007 TANK-LIQUID STORAGE
TF TF- TRANSFORMERS (ELEX)
TG TG- POSITIONING DEVICES-TILT AND/OR TRAIN (ELEX)
TH TH- TELEGRAPH APPARATUS (ELEX)
TI 61-107 TRANSDUCER-MOTIONAL PICKUP
TJ 88-049 VALVE-MANEUVERING AND THROTTLE
TK TK- TOOL KITS (ELEX)
TL TL- TOOLS (ELEX)
TM 88-250 VALVE-MANUAL RESET
TN TN- TUNING UNITS (ELEX)
TO NOT ASSIGNED
TP AN/ A INVISIBLE LIGHT, HEAT RADIATION
TO 52-012 TANK-ACCUMULATOR, HYDRAULIC
TR TR- TRANSDUCERS (ELEX)
TS TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED (ELEX/ORD)
TS TS- TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED (ELEX/ORD)
TT TT- TELETYPE WRITER AND FACSIMILE APPARATUS (ELEX)

CDC LAPL

TU 52-048 COMPENSATOR-HYDRAULIC
TV TV- TESTER-TUBE (FLEX)
TW TW- TAPE UNITS-USED FOR OPERATIONAL TEST AND CHECK OUT (ELEX)
TX T- TRANSMITTERS-ALL TYPES EXCEPT TELEPHONE (ELEX)
TY 31-006 TENSIONING DEVICE-COUNTERWEIGHT
TZ 46-002 TEST EQUIPMENT-ANALYZER
TQ 41-149 PUMP-AIRLESS SPRAY PAINT
TI 46-006 TEST FIXTURES, SETS, STANDS AND CALIBRATORS, ALL TYPES
T2 41-150 CLEANER-VACUUM, ELECTRIC
T3 43-029 TOASTER-ELECTRIC, INTERMITTENT
T4 43-030 MIXER AND TANK-FLUID ELECTRIC
T5 43-058 FOOD CUTTER AND MIXER-ELECTRICAL
T6 43-061 COMPACTOR-TRASH
T7 46-013 TORSION METER-PROPULSION SHAFTING
T8 48-010 FILTER-AIR, ELECTROSTATIC
T9 TEST EQUIPMENT-MISCELLANEOUS (HM&E/CRD)
T9 41-132 TEST EQUIPMENT-MISCELLANEOUS (HM&E/CRD)
UA U- CONNECTORS-AUDIO AND POWER (ELEX)
UB C35 LAUNDRY EQUIPMENT AND ACCESSORIES
UC C22 STEERING GEAR, EMERGENCY
UD C21 HYDRAULIC FILTER UNIT, PORTABLE
UE C30 PORTABLE CLEATS
UF C23 INDUSTRIAL GASES GENERATING, HANDLING AND STOWAGE
UG UG- CONNECTORS-RE (ELEX)
UH DIRECTOR-WEAPON SYSTEM
UI NOT ASSIGNED
UJ 88-014 VALVE-GATE, HYDROCARBON FUEL SERVICE
UK 99-018 CABLE ASSEMBLY-ELECTRICAL
UL 99-031 DISPENSER-CHAFF
UM 88-032 VALVE-REFRIGERATION SHUT OFF 3/4 IN AND LARGER
UN 52-006 MISSILE HANDLING SYSTEM-HYDRAULIC
UD NOT ASSIGNED
UP 41-071 MAGNETIC INSPECTION UNIT PORTABLE
UQ 50-003 PANEL-TEST ELECTRICAL
UR C27 CARGO HANDLING ACCESSORIES
US 50-006 PANEL-INTERIOR COMMUNICATION
UT 50-008 PANEL-GYRO OR DEAD RECKONING CONTROL
UU 86-004 SAFELIGHT-DARKROOM, PHOTOGRAPHIC
UV 28-023 PLOTTING AND TRACING EQUIPMENT
UW 55-004 REEL-CABLE
UX 19-002 RELAY-ELECTRICAL SEE ALSO TEST EQUIPMENT
UY 55-001 REELING MACHINE-CABLE
UZ 46-003 RECORDER-ELECTRICAL AND ELECTRONIC
UO 41-118 SAW-CIRCULAR
U1 SHIELD ASSEMBLY-WEAPON SYSTEM
U2 TRAIN POWER DRIVE ASSEMBLY-WEAPON SYSTEM
U3 ELEVATION POWER DRIVE ASSEMBLY-WEAPON SYSTEM
U4 TRAIN TRANSMISSION ASSEMBLY-WEAPON SYSTEM
U5 ELEVATION TRANSMISSION ASSEMBLY-WEAPON SYSTEM
U6 TRAIN RECEIVER REGULATOR-WEAPON SYSTEM
U7 ELEVATION RECEIVER REGULATOR-WEAPON SYSTEM
U8 CONTROL ASSEMBLY-WEAPON SYSTEM
U9 FUSE SETTER ASSEMBLY-WEAPON SYSTEM
VA 88-103 VALVE-BALANCING
VB 88-149 VALVE-ANGLE
VC 88-039 VALVE-ASTERN

CDC LAPL

VP 838 ENVIRONMENTAL CONTROL SYSTEM SPARES AND REPAIR PARTS
VE 88-001 VALVE-BALL
VF CONTROL-LAUNCHER
VG 88-038 VALVE-BUTTERFLY
VH V- VEHICLES-CARTS, COLLIES, VANS U/W ELECTRONIC EQUIPMENT (ELEX)
VI 88-057 VALVE-GLOBE
VJ 88-036 VALVE-CHECK
VK 88-175 VALVE-SPECIAL
VL 88-019 VALVE-PILOT AND LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
VM 88-171 VALVE-RELAY AIR, DIAPHRAGM AND PISTON TYPES
VN 88-026 VALVE-EXPANSION
VO NOT ASSIGNED
VP 88-212 VALVE-FLOAT
VQ 88-024 VALVE-FUEL OIL REGULATING
VR 88-013 VALVE-GATE, ALL TYPES EXCEPT HYDROCARBON FUEL SERVICE
VS VS- SIGNALING EQUIPMENT-VISUAL (ELEX)
VT 88-124 VALVE-LINEAR, DIRECTIONAL CONTROL
VU 88-189 VALVE-INSTANTANEOUS HEATER
VV 88-071 VALVE-NEEDLE
VW 88-217 VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
VX 88-033 VALVE-PLUG
VY 88-020 VALVE-PRESSURE REGULATING, STEAM SERVICE
VZ 88-025 VALVE-FLUSH
V0 88-102 VALVE-ROTARY, DIRECTIONAL CONTROL
V1 88-176 VALVE-EXHAUST AND RELIEF
V2 88-191 VALVE-FEEDWATER REGULATING
V3 87-013 VALVE - SEA, UNDERWATER LOG
V4 88-152 VALVE-MAIN BALLAST
V5 88-144 VALVE-MANIFOLD (EXCLUDES VALVE AND TRAP MANIFOLDS)
V6 88-216 VALVE-SOLENOID
V7 88-010 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
V8 88-166 VALVE-HINGE TYPE
V9 88-055 VALVE-Y
WA 91-001 WASHING MACHINE - LAUNDRY
WB 41-086 WELDING AND BRAZING MACHINE - BAND SAW BLADE
WC 82-002 WELDING MACHINE - RESISTANCE
WD WD- CABLE, 2 CONDUCTOR, NON-RF (ELEX)
WE 82-005 WELDING MACH-ARC, ADJUST, CONST VLTG CR CONST CURR TRANSFORMER RECTIFIER
WF WF- CABLE, 4 CONDUCTOR, NON-RF (ELEX)
WG 82-001 WELDING SET - TUNGSTEN ARC, INERT GAS SHIELDED, NONCONSUMABLE ELECTRODE
WH 82-004 WELDING SET - ARC, INERT GAS SHIELDED, CONSUMABLE ELECTRODE
WI NOT ASSIGNED
WJ 82-007 WELDING SET - STUD, ELECTRIC ARC
WK 62-001 WINCH - HAND OPERATED
WL 62-002 WINCH - STEAM OPERATED
WM WM- CABLE, MULTIPLE CONDUCTOR, NON-RF (ELEX)
WN 62-004 WINCH - ELECTRIC - HYDRAULIC
WO NOT ASSIGNED
WP 62-006 WINCH - ENGINE DRIVEN, GASOLINE OR DIESEL
WQ 62-007 WINCH - PNEUMATIC DRIVE
WR 41-087 WINDING MACHINE COIL
WS WS- CABLE, SINGLE CONDUCTOR, NON-RF (ELEX)
WT WT- CABLE, 3 CONDUCTOR, NON-RF (ELEX)
WU 63-003 WINDLASS - ELECTRICAL MECHANICAL SEE ALSO ANCHOR HANDLING ACCESSORIES
WV 63-004 WINDLASS - HAND OPERATED SEE ALSO ANCHOR HANDLING ACCESSORIES
WW 31-025 WINDOW - OBSERVATION, OPTICAL, PORTLIGHT

CDC LAPL

WX 99-001 WINDOW - NON ICING
WY 35-001 WIPER-WINDOW PNLM, RTY OR VERT TYPE, ELEC OR MNL (HM&E/ORD)
WY WIPER-WINDOW PNLM, RTY CR VERT TYPE, ELEC OR MNL (HM&E/CRD)
WZ 35-002 WIPER - WINDOW, PENDULUM TYPE, PNEUMATIC
W0 FIRING CUTOFF ASSY-WEAPON SYSTEM
W1 CARRIAGE ASSEMBLY-WEAPON SYSTEM
W2 STAND ASSEMBLY-WEAPON SYSTEM
W3 SLIDE ASSEMBLY-WEAPON SYSTEM
W4 RAMMER ASSEMBLY-WEAPON SYSTEM
W5 HOUSING ASSEMBLY-WEAPON SYSTEM
W6 GUN BARREL ASSEMBLY-WEAPON SYSTEM
W7 GAS EJECTOR ASSEMBLY-WEAPON SYSTEM
W8 EMPTY CASE EJECTOR ASSY-WEAPON SYSTEM
W9 HOIST ASSEMBLY-WEAPON SYSTEM
XA C00 COMPRESSOR GAS TURBINE REPAIR PARTS
XB BULKHEADS-STRUCTURAL
XC CANVAS
XD DECK COVERINGS
XE E34 MISCELLANEOUS FLAG ALLOWANCES, MESSING GEAR
XF C36 SURVIVAL EQUIPMENT
XG C41 LIFTING AND HANDLING GEAR MAIN AND AUXILIARY MACHINERY
XH C43 TOOLS AND ACCESSORIES MAIN PROPULSION SHAFTING
XI C38 ENVIRONMENTAL CONTROL SYSTEM APPLIANCES
XJ C47 PUMPS, PORTABLE
XK C51 BOILER TOOLS AND ACCESSORIES
XL C58 TOOLS AND ACCESSORIES DISTILLING PLANT
XM C59 TOOLS AND ACCESSORIES REFRIGERATION SYSTEM
XN DOOR-NON STRUCTURAL
XO NOT ASSIGNED
XP C48 HOSE AND MISCELLANEOUS HOSE FITTINGS
XQ C61 TOOLS AND ACCESSORIES GENERATORS
XR C18 RIGGING
XS SHEATHING
XT C62 TOOLS AND ACCESSORIES ELECTRIC POWER DISTRIBUTION
XU C64 LIGHT EXTENSION
XV C65 PORTABLE INTERIOR COMMUNICATION EQUIPMENT
XW C66 LIGHT SIGNAL PORTABLE
XX C67 ELECTRICAL AND ELECTRONIC HAND TOOLS
XY C69 IOTIC SUPPORT EQUIPMENT
XZ C70 FLAGS AND PENNANTS
X0 C75 ASROC/TORPEDO/MINE HANDLING
X1 DECK
X2 DOME-SONAR(STRUCT AND NON STRUCT)
X3 BALLAST
X4 PLATFORM DECK
X5 FLAT
X6 C77 NBC WARFARE EQUIPMENT
X7 C81 MINESWEEPING EQUIPMENT
X8 C83 AIRCRAFT HANDLING AND STOWAGE
X9 C85 PROJECTION EQUIPMENT AND ACCESSORIES
YA 54-009 TABLE-LITHOGRAPHIC LAYOUT
YB 60-006 STEERING GEAR
YC 46-C11 TRITIUM AIR MONITOR
YD 85-C36 TROLLEY - MONORAIL AND BI-RAIL
YE TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSO CARGO HNDL ACCY (HM&E/ORD)
YE 85-018 TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSO CARGO HNDL ACCY (HM&E/ORD)

CDC LAPL

YF 41 139 TUBE AND FLUE CLEANER - AIR MOTOR DRIVEN
YG 41-140 TUBE AND FLUE CLEANER - ELECTRIC MOTOR DRIVEN
YH 05-001 TURBINE-STEAM, MAIN PROPULSION
YI NOT ASSIGNED
YJ 61-029 CONTROL PANEL-AUTOMATIC OR MANUAL
YK 61-048 ELECTRONICS SUB-ASSEMBLIES
YL 82-003 WELDING MACHINE - ARC, DRIVEN BY GAS OR DIESEL INTERNAL COMBUSTION ENGINE
YM 61-065 INDUCTOR-VERNIER
YN 82-006 WELDING MACHINE - ARC, ELECTRIC MOTOR DRIVEN
YO NOT ASSIGNED
YP 62-003 WINCH - ELECTRIC
YQ 63-001 WINDLASS - STEAM DRIVEN SEE ALSO ANCHOR HANDLING ACCESSORIES
YR 05-006 TURBINE-STEAM, AUXILIARY
YS 05-022 TURBINE - WATER DRIVEN
YT 05-028 TURBINE - GAS, PROPULSION AND AUXILIARY SERVICE OVER 2000 HORSEPOWER
YU 05-029 TURBINE - GAS, PROPULSION AND AUX SEPV 2000 HORSEPOWER OR UNDER
YV 05-025 TURBINE AND FAN, INTEGRAL FORCED DRAFT AIR SERVICE FOR MAIN BOILER
YW 05-019 TURBINE CONTROL - PROPULSION
YX 05-024 TURBO/SUPERCHARGER - DIESEL ENGINE
YY 85-003 TURNTABLE - TROLLEY OR BALL TYPE, MANUAL OR POWER DRIVEN
YZ 85-009 TORPEDO HANDLING UNIT (HM&E/ORD)
YZ TORPEDO HANDLING UNIT (HM&E/ORD)
YO C12 HULL FITTINGS, LASHING GEAR AND ACCESS CLOSURES
Y1 53-002 CAPSTAN-POWER OPERATED, ELECTRIC OR HYDRAULIC
Y2 63-002 WINDLASS - ELECTRIC HYDRAULIC SEE ALSO ANCHOR HANDLING ACCESSORIES
Y3 C87 TEST, MEASURING AND INDICATING EQUIPMENT
Y4 C90 RADIATION MONITORING AND COUNTERMEASURES
Y5 C93 SHIPBOARD FIREFIGHTING AND ACCESSORIES
Y6 ORDNANCE TOOLS AND ACCESSORIES (AEL/CPD)
Y6 A00 ORDNANCE TOOLS AND ACCESSORIES (AEL/CRD)
Y7 WFLDMENT
Y8 C94 SALVAGE TOOLS AND EQUIPMENT
Y9 C95 DIVING EQUIPMENT
ZA 61-086 STAND, CONTROL-STEERING
ZB 61-087 STAND, CONTROL PROPULSION
ZC 91-009 STARCH COCKER-LAUNDRY
ZD 61-482 VALVE OPERATOR-HYDRAULIC OPERATOR
ZE 34-001 STARTER-ENGINE, ELECTRICAL
ZF 34-002 STARTER-ENGINE, HYDRAULIC
ZG 34-003 STARTER-ENGINE, DIRECT COMBUSTION AND/OR GAS TURBINE
ZH 34-005 STARTER-ENGINE, AIR MOTOR OR AIR TURBINE TYPE
ZI NOT ASSIGNED
ZJ 60-001 STEERING GEAR-ELECTRO-HYDRAULIC, MARINE, LINK, TILLER TYPE
ZK 60-003 STRNG GEAR-ELEC MCH, MRN, DRM&CBL/CBL&CC, GR&QC, FND OP TY
ZL 60-007 STEERING GEAR-ELECTRIC, STEER MOTOR-CHAIN DRIVE TYPE
ZM- IMPEDANCE MEASURING DEVICES (ELEX)
ZN 60-008 STEERING GEAR-EMERGENCY SUBMERSIBLE TYPE
ZO NOT ASSIGNED
ZP 61-027 STEERING HEAD-GYROPILOT
ZO 54-020 STITCHER-BOOK AND PAMPHLET
ZR 64-005 STRAINER-PRESSURE, FIRE HOSE WITH BALL VALVE
ZS 64-014 FIRE EXTINGUISHING SYSTEM-TWIN AGENT
ZT C99 TOOLS AND EQUIPMENT MISCELLANEOUS
ZU 64-015 FIRE EXTINGUISHING UNIT-DRY CHEMICAL
ZV D39 ODSRV RESCUE CONTROL CENTER
ZW 64-016 NOZZLE ASSEMBLY-TWIN AGENT

CDC LAPL

ZX 41-113 SAND MULLER
ZY 75-001 STRAINER-SEDIMENT
ZZ MISCELLANEOUS ITEMS NOT OTHERWISE COVERED
Z0 E24 MISCELLANEOUS FLAG ALLOWANCES, NAVIGATION INSTRUMENTS
Z1 61-072 CONTROL-HUMIDITY
Z2 41-129 SURFACER-WOODWORKING
Z3 85-027 SWAY BRACE ASSEMBLY-ELECTRIC CHAIN HOIST DRIVE
Z4 89-005 SWIMMERS RECOVERY SYSTEM
Z5 E36 MISCELLANEOUS FLAG ALLOWANCES, VACUUM CLEANER
Z6 61-074 COMPUTER-SHIPBOARD
Z7 E85 MISCELLANEOUS FLAG ALLOWANCES, PROJECTION EQUIPMENT
Z8 61-389 BELLOWS ASSEMBLY-PRESSURE RELIEF
Z9 NOT ASSIGNED
0A NOT ASSIGNED
0B NOT ASSIGNED
0C TELEMETERING SETS
0D NOT ASSIGNED
0F NOT ASSIGNED
0F NOT ASSIGNED
0G NOT ASSIGNED
0H NOT ASSIGNED
0I NOT ASSIGNED
0J NOT ASSIGNED
0K NOT ASSIGNED
0L NOT ASSIGNED
0M NOT ASSIGNED
0N NOT ASSIGNED
0O NOT ASSIGNED
0P NOT ASSIGNED
0Q NOT ASSIGNED
0R OR ORDNALS AND ORDNANCE MODIFICATIONS-OTHER THAN SWITCHBOARD
0S RS ORDNALS AND ORDNANCE MODIFICATIONS-SWITCHBOARD ONLY
0T NOT ASSIGNED
0U NOT ASSIGNED
0V NOT ASSIGNED
0W NOT ASSIGNED
0X NOT ASSIGNED
0Y NOT ASSIGNED
0Z NOT ASSIGNED
00 NLAPLW NLAPLW-ITEM LISTED BY SPCC AS NOT LAPL WORTHY
00 INCOMP INCOMP-ITEM LISTED BY SPCC AS INCOMPLETE
01 06-001 COMPRESSOR-RECIPROCATING, OTHER
02 06-004 COMPRESSOR-CENTRIFUGAL, REFRIGERATION
03 06-201 COMPRESSOR-RECIPROCATING, AIR, HIGH, PRESSURE
04 06-202 COMPRESSOR-RECIPROCATING, AIR, LOW, PRESSURE
05 06-203 COMPRESSOR-CENTRIFUGAL, AIR, LOW PRESSURE
06 06-204 COMPRESSOR-ROTARY, AIR, LOW PRESSURE
07 06-501 COMPRESSOR-VAPOR ROTARY
08 AVIATION ORDNANCE EQUIPMENT
09 04-001 CONDENSER-REFRIGERATION, WATER, COOLED
1A NOT ASSIGNED
1B 41-004 BOOTH-SPRAYING
1C 39-005 CLUTCH-FRICTION
1D B37 PROPANE GAS AND CYLINDERS
1E MACK
1F 14-007 FUSE UNIT ASS

CDC LAPL

1G 41-045 GRINDING MACHINE-UTILITY (INCL BUFFNG CAPABILITY)
1H 76-006 HYPOCHLORINATION UNIT
1I NOT ASSIGNED
1J 01-012 PUMP-FUEL, ALL TYPES INCLUDING ELFCTRIC DRIVE DESIGN
1K 54-001 PUNCHING MACHINE-PAPER
1L 61-049 SYNCHRO-RECEIVER, TRANSMITTER, RECEIVER, TRANSMITTER
1M 17-018 MOTOR-AC/DC MAIN PROP, UNLIMITED HCRSEPOWER
1N C32 FURNISHINGS AND CUTFITTINGS
1O NOT ASSIGNED
1P 39-003 POWR TAKE OFF-ACCESSORY DRIVE
1Q 01-005 PUMP-ROTARY, POWER DRIVEN
1R 43-057 RINSER-SANITIZER
1S 86-001 SINK-PHOTOGRAPHIC PROCESSING
1T 01-013 PUMPING UNIT-CENTRIFUGAL, POWER DRIVEN, AIRCRAFT FUELING
1U NOT ASSIGNED
1V 88-004 VALVE-SAFETY RELIEF, MAIN PROPULSION BOILER
1W NOT ASSIGNED
1X 52-014 CYLINDER-ACTUATING LINEAR SEE ALSO JACK ASSEMBLY/SFCK AB
1Y 57-008 CRANE-ASROC MISSILE
1Z NOT ASSIGNED
10 NOT ASSIGNED
11 04-100 CONDENSER-STEAM, ALL TYPES
12 01-003 PUMP-CENTRIFUGAL, MAIN CONDENSER CIRCULATING
13 01-004 PUMP-ROTARY, POWER DRIVEN, CAM AND PLUNGER DESIGN
14 01-006 PUMP-ROTARY, POWER DRIVEN, IMPELLER DESIGN WITH TIMING GEARS
15 01-007 PUMP-ROTARY, POWER DRIVEN, EXTERNAL GEAR DESIGN
16 32-009 CONDENSING UNIT-REFRIGERATION
17 99-023 CONNECTOR-ELECTRICAL SEE BOX-ELECTRICAL
18 61-030 CONSOLE-CONTROL AND POWER
19 09-004 CONTROL-BATTERY CHARGER
2A LAUNCHING SYSTEM (MISSILE/ROCKET)
2B BOX-ELECTRICAL (HM&E/ORD)
2B 99-008 BOX-ELECTRICAL (HM&E/ORD)
2C 39-006 CLUTCH-MAGNETIC
2D 844 PROPELLER, SPECIAL TOOLS AND HANDLING GEAR
2E LAUNCHERS (MISSILE/ROCKET)
2F 850 GOVERNOR OVERSPEED SPARES
2G 25-024 GYRO COMPASS-ARMA MK 7,8,9,10,21,22,24, & 26
2H 31-003 HATCH COVER
2I NOT ASSIGNED
2J ANTI-ICING SYSTEM
2K 41-074 PUNCHING, SHEARING, AND NIBBLING MACHINE-METAL
2L 32-034 SEPARATOR-OIL, REFRIGERANT
2M 41-089 MOTOR-PNEUMATIC
2N 83-037 OIL DISTRIBUTION BOX OR OIL INJECTOR ASSEMBLY
2O NOT ASSIGNED
2P 52-047 POWER UNIT-HYDRAULIC
2Q 39-001 CLUTCH-POSITIVE DRIVE AND ROTATING ELEMENT
2R 41-075 RIVETING MACHINE-ELECTRIC OR PNEUMATIC
2S 41-082 SKIVING AND BEVELING MACHINE-SHOE,SOLE,HAND OPERATED
2T 41-085 THREADING MACHINE-PIPE AND BOLT SEE ALSO SHOP ACCESSORIES-TOOLS X ECP
2U MAGAZINES-WEAPON SYSTEM
2V GUN MOUNTS
2W NOT ASSIGNED
2X CASTING
2Y 57-009 CRANE-ELECTRO HYDRAULIC

CDC LAPL

2Z 21-011 SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
20 61-008 CONTROL-STEERING SYSTEM
21 61-009 CONTROL-MECHANICAL
22 NOT ASSIGNED
23 61-015 CONTROL-NAVIGATIONAL LIGHT
24 61-022 CONTROL-ACOUSTIC DEVICE
25 61-024 CONTROL-MECHANICAL PUSH PULL STROKE
26 61-026 CONTROL-ELECTRIC LIGHT
27 61-040 CONTROL-VALVE OPERATOR
28 61-064 CONTROL-HUMIDITY
29 61-067 CONTROL-REMOTE TRANSMITTERS AND RECEIVERS
3A NOT ASSIGNED
3B 80-001 BRAKE-ELECTRIC, SHOE OR DISC, SOLENOID
3C 39-007 CLUTCH-MAGNETIC PARTICLE
3D B41 PROPULSION MAIN DRIVE DIESEL ENGINE EQUIPMENT AND ACCESSORIES
3E NOT ASSIGNED
3F FRAME-STRUCTURAL
3G 25-028 GYRO COMPASS-SPERRY MK 11, 14, 17, 18, & 19
3H NOT ASSIGNED
3I NOT ASSIGNED
3J 21-018 SWITCHING UNIT-POWER TRANSFER
3K 76-001 PURIFIER-CENTRIFUGAL
3L 93-009 SEPARATOR MISTURE
3M 52-046 MOTOR-HYDRAULIC
3N 01-018 PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE-COUPLED, NAVY STD
3O NOT ASSIGNED
3P 61-091 POWER UNIT-GYRO PILOT
3Q 01-009 PUMP-ROTARY, POWER DRIVEN, VANE DESIGN, FIXED OR VAR DELIVERY
3R 87-002 ROOMETER-UNDERWATER LOG SYSTEM
3S 32-020 SODA FOUNTAIN
3T 61-056 THRUSTOR-MOTOR DRIVEN, HYDRAULICALLY OPERATED
3U B58 DISTILLING PLANT ACCESSORIES
3V 16-016 VAPORIZER SYSTEM - LIQUID OXYGEN OR NITROGEN
3W AN/ C CARRIER
3X 06-005 COMPRESSOR-RECIPROCATING, REFRIG, VERT OPR, SEMI-HERM
3Y 57-010 CRANE STERN
3Z AN/ D RADIAC
30 61-071 CONTROL-PHOTOELECTRIC CELL
31 61-079 CONTROL-CONSTANT FREQUENCY
32 61-096 CONTROL-TRANSMISSION REVERSING MECHANISM
33 61-108 CONTROL-PERISCOPE
34 61-110 CONTROL-SENSOR, DEPTH AND TRIM
35 61-402 CONTROL-FLAME FAILURE
36 61-444 CONTROL-GENERATOR, COOLER FEEDWATER
37 61-481 CONTROL-SERVIC, CONTROLLABLE PITCH PROPELLERS
38 87-004 CONTROL-UNDERWATER LOG
39 61-019 CONTROL TRANSMITTER-PRESSURE DIFFERENTIAL
4A AN/ G TELEGRAPH OR TELETYPE
4B BULKHEAD-NONSTRUCTURAL
4C 39-013 CLUTCH- ALL OTHER TYPES
4D 31-019 DOOR-MISSILE TUBE
4E AN/ I INTERPHONE AND PUBLIC ADDRESS
4F FORGING
4G 25-039 GYRO COMPASS-SPERRY MK 23 AND 27
4H AN/ J ELECTROMECHANICAL OR INERTIAL WIRE COVERED
4I NOT ASSIGNED

CDC LAPL

4J 22-001 SWITCHBOARD-DEGAUSSING
4K 61-012 CONTROL-DEGAUSSING
4L 61-011 SERVO GEAR TRAIN
4M 18-001 MOTOR GENERATOR
4N 31-002 OPERATING MECHANISM-DOCR,RAMP,STERNGATE & BRIDGE
4O NOT ASSIGNED
4P 41-068 PRESS-GRGMMET AND EYFLET
4Q TELEMETERING (ELEX/ORD)
4R AN/ K TELEMETERING (ELEX/ORD)
4S 31-019 RUDDER-INCLUDING STOCKS, POSTS AND CARRIERS
4T 41-127 SOLDER AND DESOLDER UNIT-ELECTRIC
4U 61-005 TIMER
4V AN/ L COUNTERMEASURES
4W 43-014 VEGETABLE PEELING MACHINE - ELECTRIC
4X AN/ M METEOROLOGICAL
4Y C33 CLOTHING STANDARD OUTFIT, AIR PURIFICATION AND LIFE PRESERVERS
50 57-011 CRANE-HEAVY EQUIPMENT
51 01-019 PUMP CENTRIFUGAL, POWER DRIVEN, PERIPHERAL DESIGN
52 61-075 CONTROL-STEERING AND DIVING ASSEMBLY
53 61-062 CONTROL-PNEUMATIC
54 61-066 CONTROL-TELE MOTOR STEERING
55 61-089 CONTROL-SPLIT PLANE
56 61-132 CONTROL-FEED WATER SYSTEM
57 61-251 CONTROL- PRESSURE,TEMP,LEVEL AND FLOW
58 83-040 CONTROL-CONTROLLABLE PITCH PROPELLER
59 15-002 CONTROLLER/STARTER, AC
5A AN/ N SOUND IN AIR
5B AN/ P RADAR
5C AN/ Q SONAR AND UNDERWATER SCUND
5D 80-002 BRAKE-ELECTRIC, MOTOR OPERATED
5E 43-015 COFFEE MAKER
5F 31-017 DOOR-HINGED TYPE, POWER OPERATED
5G AN/ R RADIO
5H FOUNDATION
5I 25-008 GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
5J AN/ S SPECIAL TYPES MAGNETIC, ETC., OR COMBINATIONS OF TYPES
5K NOT ASSIGNED
5L 22-002 SWITCHBOARD-INTERIOR COMMUNICATION
5M PLATFORM-SERVICE
5N STRUCTURE-DECKHOUSE
5O AN/ T TELEPHONE (WIPE)
5P 28-009 OPTICAL NAVIGATIONAL AIDS ALSO SEE SPECIFIC EQPMT
5Q NOT ASSIGNED
5R 41-058 PRESS-HYDRAULIC, MANUAL OR POWER OPERATED
5S 01-008 PUMP-ROTARY, POWER DRIVEN, INTERNAL GEAR DESIGN
5T B21 HYDRAULIC SYSTEM TOOLS AND REPAIR PARTS
5U 41-126 SOLDERING AND BRAZING OUTFIT, ELECTRIC
5V TRUNK-STRUCTURAL
5W AN/ V VISUAL AND VISIBLE LIGHT
5X 87-007 VENT, AIR - U/W LOG EQUIPMENT
5Y AN/ W ARMAMENT (PECULIAR TO ARMAMENT, NOT OTHERWISE COVERED)
5Z 01-021 PUMP-CENTRIFUGAL, TURBINE DRIVEN, GASLINE SERVICE
5AA 57-013 CRANE-GANTRY
5AB B62 PORTABLE STORAGE BATTERIES AND POWER DISTRIBUTION ACCESSORIES
5AC AN/ X FACSIMILE OR TELEVISION
5AD AN/ Y DATA PROCESSING

CDC LAPL

52 AUTOMOTIVE & CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 95)
53 MISC. PARTS LISTS FOR SHIPS (INCL ALL APLS STARTING WITH 89000)
54 MAINTENANCE & REPAIR SHIP EQUIPMENT (INCL ALL COMMODITY CLASS 12)
55 CHEMICAL WARFARE EQUIPMENT (INCL ALL COMMODITY CLASS 47)
56 SICK-BAY EQUIPMENT (INCL ALL COMMODITY CLASS 84)
57 01-020 PUMP-CENTRIFUGAL, POWER DRIVEN, HORIZONTAL, SPLIT CASE DESIGN
58 RIGGING & RIGGING GEAR (INCL ALL COMMODITY CLASS 90)
59 CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 96)
6A 99-015 ARRESTOR-ELECTRICAL
6B 01-028 PUMP-CENTRIFUGAL, TURBINE DRIVEN, HORIZONTAL, CLOSE-COUPLED
6C 54-023 COLLATOR
6D 31-008 DOOR-METAL SLIDING
6E SPECIAL POWER PLANT EQUIPMENT (INCL ALL COMMODITY CLASS 98)
6F NOT ASSIGNED
6G 25-010 GYRO COMPASS EQUIPMENT-ALARMS-AUDIBLE & VISIBLE
6H NOT ASSIGNED
6I NOT ASSIGNED
6J 22-004 SWITCHBOARD-PULSION
6K PYROTECHNIC EQUIPMENT
6L SEA CHEST
6M E99 MISCELLANEOUS FLAG ALLOWANCES, FURNITURE AND MISC. EQUIPMENT
6N 87-012 OSCILLATOR AND AMPLIFIER-U/W LOG EQUIPMENT
6O NOT ASSIGNED
6P 41-100 PRESS-ARBOR, MANUAL OPERATION
6Q NOT ASSIGNED
6R NOT ASSIGNED
6S 61-046 SOLENOID-ELECTRIC
6T 43-026 TOASTER-ELECTRIC
6U NOT ASSIGNED
6V 31-020 VENTILATOR - DECK
6W NOT ASSIGNED
6X B16 ACCESS CLOSURES OPERATING SPARES
6Y 57-016 CRANE-KINGPOST
6Z NOT ASSIGNED
60 15-010 CONTROLLER, DC
61 NOT ASSIGNED
62 25-014 CONVERTER-SIGNAL DATA
63 01-022 PUMP-CENTRIFUGAL, POWER DRIVEN, FOR COMMERCIAL DISHWASHING MACHINE
64 01-023 PUMP-CENTRIFUGAL, POWER DRIVEN, SUBMARINE TRIM AND DRAIN SERVICE
65 59-006 CONVEYOR-POWER OPERATED, BELT OR VERTICAL TRAY TYPE
66 NOT ASSIGNED
67 03-001 COOLER-FLUID, SHELL/TUBE CONSTRUCTION
68 01-026 PUMPING UNIT-CENTRIFUGAL, ELECTRIC MOTOR DRIVEN, FOR STEAM SYSTEMS
69 03-002 COOLER-FLUID, TYPE B
7A APPENDAGES-SHELL
7B 80-003 BRAKE-PNEUMATIC
7C 41-009 COLLECTOR UNIT-DUST
7D 43-C54 DOUGH INTERMEDIATE PROOFING MACHINES
7E NOT ASSIGNED
7F NOT ASSIGNED
7G 25-011 GYRO COMPASS EQUIPMENT-CABINET-GYRO & GUID COMP STOR
7H NOT ASSIGNED
7I NOT ASSIGNED
7J 22-009 SWITCHBOARD-ALARM
7K NOT ASSIGNED
7L STANCHIONS

CDC LAPL

7M 51-006 MOUNT-RESILIENT
7N 41-090 OVEN-THERMAL DRYING, ELECTRIC
7O NOT ASSIGNED
7P 44-008 PRESSURE REDUCING STATION
7Q NOT ASSIGNED
7R NOT ASSIGNED
7S 81-001 SOOT BLOWERS
7T TORPEDO TUBE ASSEMBLY
7U NOT ASSIGNED
7V 61-054 VERTICAL REFERENCE
7W NOT ASSIGNED
7X NOT ASSIGNED
7Y 41-039 CUT-OFF MACHINE-ABRASIVE DISK, METAL CUTTING
7Z 21-023 SWITCH-PRESSURE AND/OR THERMOSTATIC
70 03-003 COOLER-FLUID, ENGINE JACKET WATER HULL MOUNTED
71 03-004 COOLER, FLD SMPL WTR TYPE I SHL/CL DSN, TYP II DB TB
72 03-006 COOLER, AIR
73 03-011 COOLER-FLUID, RADIATOR ENGINE COOLANT
74 03-015 COOLER-AMINE
75 32-011 COOLER-AIR FLOW UNIT
76 32-010 COOLING COIL-AIR, DUCT TYPE AND GRAVITY TYPE
77 46-005 COUNTERS AND TOTALIZERS
78 NOT ASSIGNED
79 51-001 COUPLING-FLEXIBLE, SOUND ISOLATION
8A NOT ASSIGNED
8B 80-004 BRAKE-MANUAL
8C 28-012 COMPASS COMPENSATING EQUIPMENT
8D 43-018 DOUGH MIXING MACHINES
8E NOT ASSIGNED
8F NOT ASSIGNED
8G 25-021 GYRO COMPASS EQUIPMENT-RELAY TRANSMITTER
8H NOT ASSIGNED
8I NOT ASSIGNED
8J 22-013 SWITCHBOARD-POWER
8K NOT ASSIGNED
8L 878 AMMUNITION HANDLING AND STOWAGE
8M 86-014 MOUNT-FILM SLIDE, PHOTOGRAPHIC
8N 43-019 RANGES AND OVENS-OIL BURNING-SEE ALSO GALLEY EQPMT
8O NOT ASSIGNED
8P 29-003 PRIMER-ENGINE STARTING, ETHER INJECTION
8Q 01-002 PUMP-RECIPROCATING, DIRECT ACTING AND POWER DRIVEN
8R NOT ASSIGNED
8S 25-017 STABILIZER-GYRO
8T 67-009 TOILET-MARINE
8U NOT ASSIGNED
8V 26-004 VIEWER - STILL PICTURE
8W NOT ASSIGNED
8X NOT ASSIGNED
8Y 02-004 BOILER-AUXILIARY, HP STEAM, OIL FIRED
8Z 21-006 SWITCHES-GENERAL
80 01-032 PUMP UNIT-CENTRIFUGAL, POWER DRIVEN, PORTABLE (SELF-CONTAINED)
81 78-001 COUPLING-FLEXIBLE, SHAFT
82 01-034 PUMPING UNIT-HYDRAULIC, AIR DRIVEN
83 NOT ASSIGNED
84 01-035 PUMP-CENTRIFUGAL, PWR DRIVEN, (MULTI-STAGE) VERT DEEPWELL TURB DESIGN
85 01-036 PUMP-JET, MAIN PROPULSION

CDC LAPL

86 01-C37 PUMP-RECIPROCATING, AIR DRIVEN, MISCELLANEOUS SERVICE
87 78-004 COUPLING-FLEX, SHFT, AUXILIARY SERVICE
88 02-002 BOILER-AUXILIARY, HP STEAM, WATER TUBE
89 02-003 BOILER-AUXILIARY, HP STEAM, HORIZONTAL FIRE TUBE
9A NOT ASSIGNED
9B 80-005 BRAKE-HYDRAULIC
9C COMPARTMENT
9D 43-032 DOUGH PROCESSING MACHINE-POWER AND MANUAL
9E NOT ASSIGNED
9F NOT ASSIGNED
9G 41-066 GRINDING MACHINE-TOOLS & CUTTERS
9H NOT ASSIGNED
9I NOT ASSIGNED
9J 22-021 SWITCHBOARD-STATIC GROUP CONTROL
9K NOT ASSIGNED
9L SMALL ARMS
9M 79-001 MUFFLER
9N GRATINGS, FLOOR PLATES
9O NOT ASSIGNED
9P 86-002 PRINTER-PHOTOGRAPHIC
9Q NOT ASSIGNED
9R NOT ASSIGNED
9S 31-029 STABILIZER-ACTIV FIN, RETRACTBLE & NONRETRACTBLE
9T C25 TOWING GEAR
9U NOT ASSIGNED
9V 86-006 VIEWER PRINTER - MICROFILM
9W NOT ASSIGNED
9X NOT ASSIGNED
9Y 54-013 CUTTER-PAPER, GUILLOTINE
9Z NOT ASSIGNED
90 NOT ASSIGNED
91 R20 WINCHES AND CAPSTANS REPAIR PARTS
92 78-011 COUPLING-RIGID, SHAFT
93 78-009 COUPLING-HYDPAULIC
94 78-012 COUPLING-CLAMP PIPE
95 78-013 COUPLING-ELECTRIC INDUCTION
96 93-018 COUPLING-HOSE, MISC SEE ALSO UNWAY REPLEN ACC
97 57-001 CRANE-BRIDGE CR OVERHEAD TRAVELING
98 57-002 CRANE-QUARTER
99 57-003 CRANE-JIB