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SHIP SYSTEMS STAGING DIAGRAMS FOR DDG-37 CLASS SHIPS

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ARINC RESEARCH CORPORATION

CORPORATE HEADQUARTERS
2551 Riva Road
Annapolis, MD 21401

HONOLULU SUPPORT OFFICE
245 Fort Street, Suite 212
Honolulu, HI 96813

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December 1977

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ABBREVIATIONS

COSAL	- Coordinated Shipboard Allowance List
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
NAVAIR	- Naval Air Systems Command
NAVELEX	- Naval Electronics Systems Command
NAVSEA	- Naval Sea Systems Command
NAVSEC	- Naval Ships Engineering Center
PMS	- Planned Maintenance System
POT&I	- Preoverhaul Test and Inspection
SARP	- Ship Alteration and Repair Package
SECAS	- Ship Equipment Configuration Accounting System
ShipAlt	- Ship Alteration
SSDI	- Ship Systems Definition and Index
SSSD	- Ship Systems Staging Diagrams
SWAB	- Ship Work Authorization Boundary
SWABS	- Ship Work Authorization Boundary System
SWBS	- Ships Work Breakdown Structure
TYCOM	- Type Commander

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1. INTRODUCTION

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

The SSSD ~~presented herein~~ is an original compilation for the DDG-37 class of Navy ships. It generally follows the presentation established in the August 1977 revision of the FF-1052 Class SSDI* in that it, too, incorporates the latest changes to the coding identifications of systems, subsystems, equipments, and components to bring them into conformance with the current SWBS/SWABS/SECAS Staging Index for Surface Ships. The Staging Index, and its supporting Component Dictionary Code, is compatible with the Ships Work Breakdown Structure (SWBS) and the Ship Work Authorization Boundary (SWAB) descriptions.

This report discusses the general properties of SSSDs (Section 2); points out the many ways SSSDs can be utilized by the various Navy activities (Section 3); and presents the SSSDs for the DDG-37 ship class (Section 4).

*Ship Systems Definition and Index (SWBS Staging Diagrams) for FF-1052 Class Ships, Publication 1804-01-1-1547R, August 1977, prepared for PERA(CRUDES) under Contract N00140-76-D-0813-0006.

2. PROPERTIES OF SSSD

The hierarchical concept on which the Ship Systems Staging Diagram is based is illustrated in Figure 1. As can be seen, the SSSD is structured such that the summation of SSSD 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 presented in Figure 2.

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

a. Provide a multi-level breakdown of the ship's configuration.

b. Completely define the ship at each level.

c. Contain no redundancies in its definition of the ship.

d. Utilize the Ships Work Breakdown Structure. This provides a standard language based on the same nomenclature and coding system that is mandatory for use on a Navy-wide basis.

e. Utilize a standard Navy Staging Index for fourth-level identification codes and 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., 2551Q7.

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 each ship within the class.

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

a. System equipments

b. System boundaries

c. Shipboard maintenance work centers.

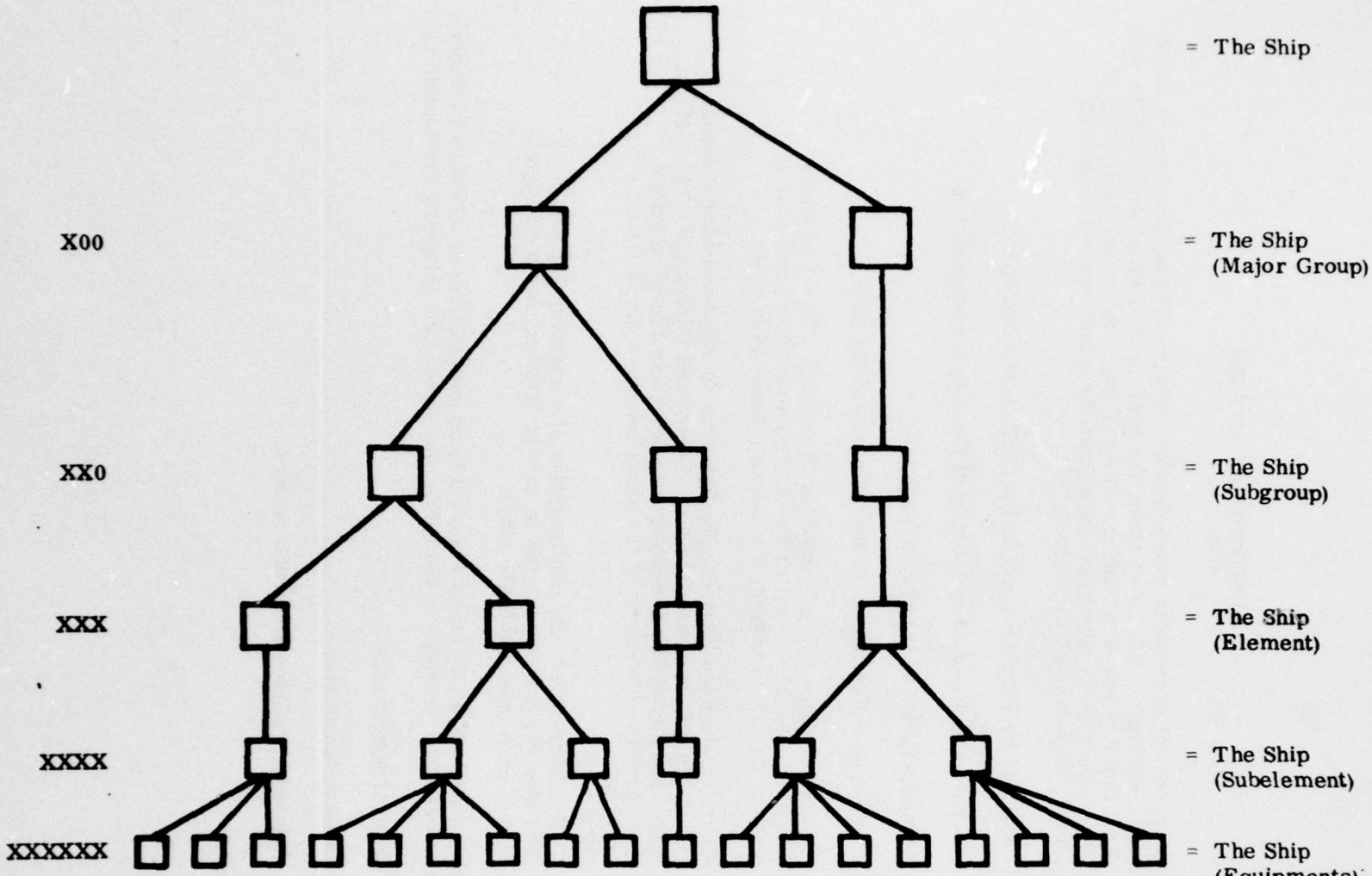

Figure 1. SSSD Concept

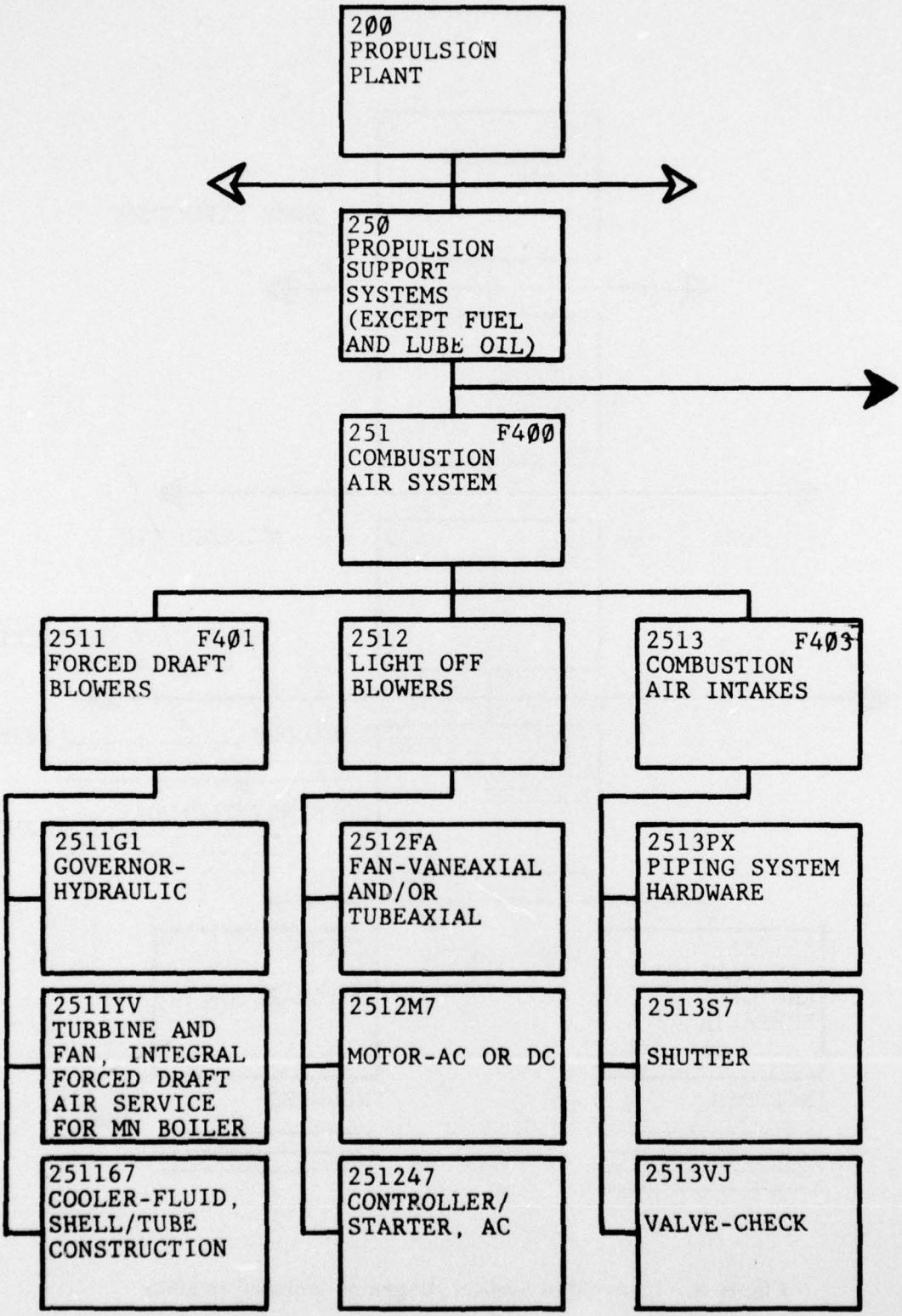

Figure 2. Portion of a Typical Ship's System

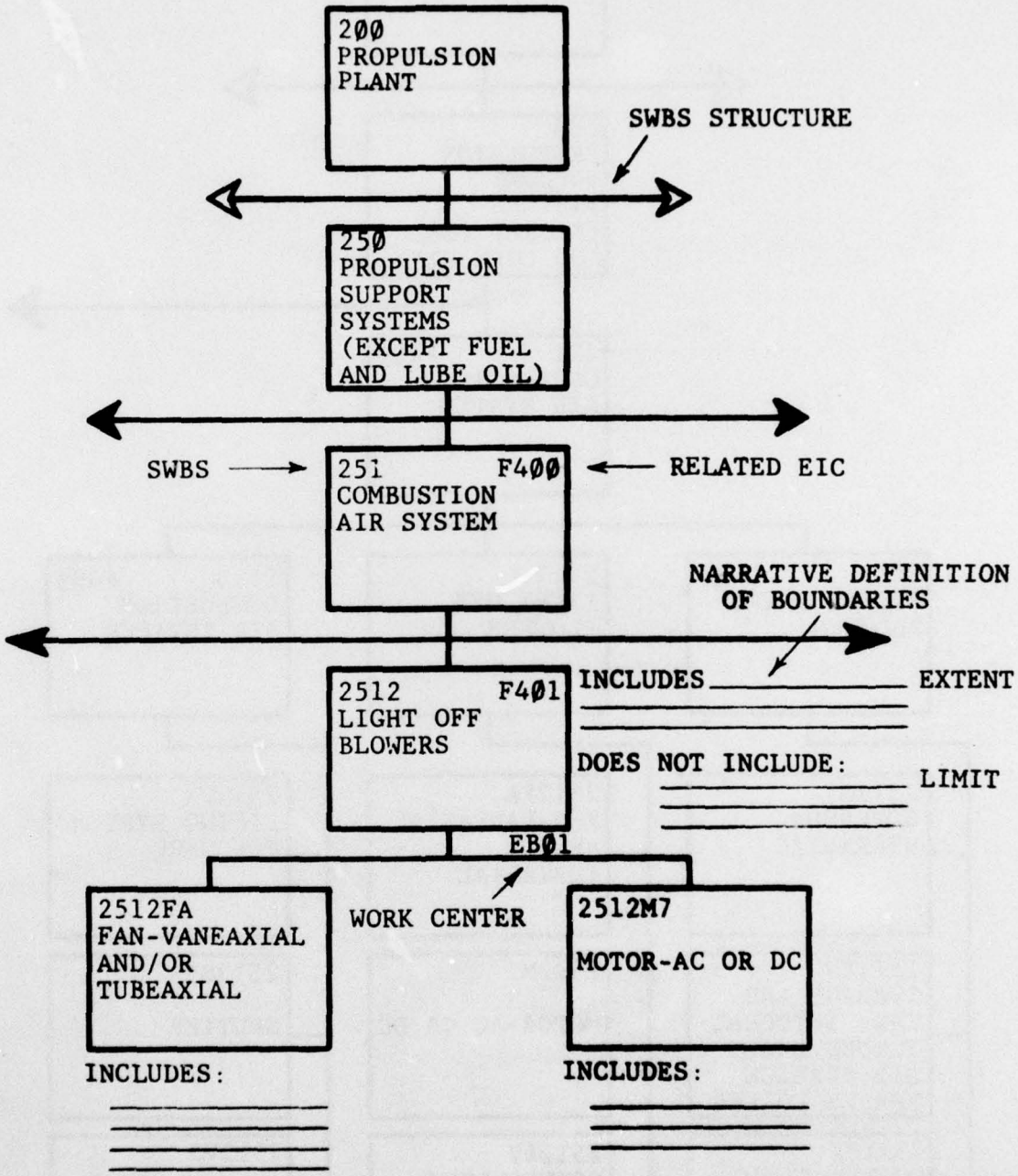

Figure 3. Example of System Diagrams Included in SSSD

3. USES OF SSSD

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 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, the technical systems commands (NAVSEA, NAVELEX, NAVAIR) 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 and repair activities must be able to organize a work package on the basis of specific as well as interrelated 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 Staging Diagram provides this common language by describing a specific ship in terms common to all ships of the fleet. Potential uses of the SSSD are outlined below.

3.1 SSSD SUPPORT TO SHIP'S FORCE

3.1.1 Maintenance

a. Serves as a checklist for planning and conducting inspection.

b. Provides the basis for comparing repair items with alterations.

c. Aids in establishing repair priorities.

d. Assists in identifying shipyard, intermediate maintenance activities, and ship's force 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 of identifying deficiencies in shipboard documentation such as the Coordinated Shipboard Allowance List (COSAL), Planned Maintenance System (PMS), etc.

j. Provides capability for reducing duplication in validation programs.

k. Assists in identifying Equipment Identification Codes (EIC) necessary for Current Ship's Maintenance Project (CSMP) and Maintenance Data Collection System (MDCS).

l. Provides a standard language for maintenance documentation.

m. 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 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 SSSD 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 progressing

- Drawing numbering

- Material identification and ordering

- Pre-Overhaul Test and inspection (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 standard structure for total shipboard validation.

b. Provides information for determining the desired level of validation.

3.2.3 Technical System Commands (NAVSEA, NAVELEX)

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).

4. SSSD FOR DDG-37 CLASS SHIPS

4.1 SSSD INDEX

The SSSD for DDG-37 class ships is presented on the following pages, in the indicated order.

Index Diagrams	Page
Overall	15
100 - Hull Structure	16
200 - Propulsion Plant	17
300 - Electric Plant	18
400 - Command and Surveillance	19
500 - Auxiliary Systems	20
600 - Outfit and Furnishings	21
700 - Armament	22
800 - Integration/Engineering	23
900 - Support Services	24
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600 - Outfit and Furnishings	167
700 - Armament	193
800 - Integration/Engineering	207
900 - Support Services	213

4.2 GENERAL COMMENTS

The following general comments apply to the DDG-37 class SSSD.

a. This SSSD is structured to encompass the entire DDG-37 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 factors as ship alterations that have/have not been accomplished, variations due to construction differences, etc.

b. In each SWBS group, elements X01 through X09 are used for general requirements, and element X98 for operating liquids. These non-hardware elements are indicated by dashed blocks.

c. To maintain continuity of having equipments/ components at the fifth level, some element titles are repeated at the fourth and fifth levels and appropriately numbered, e.g., element 163.

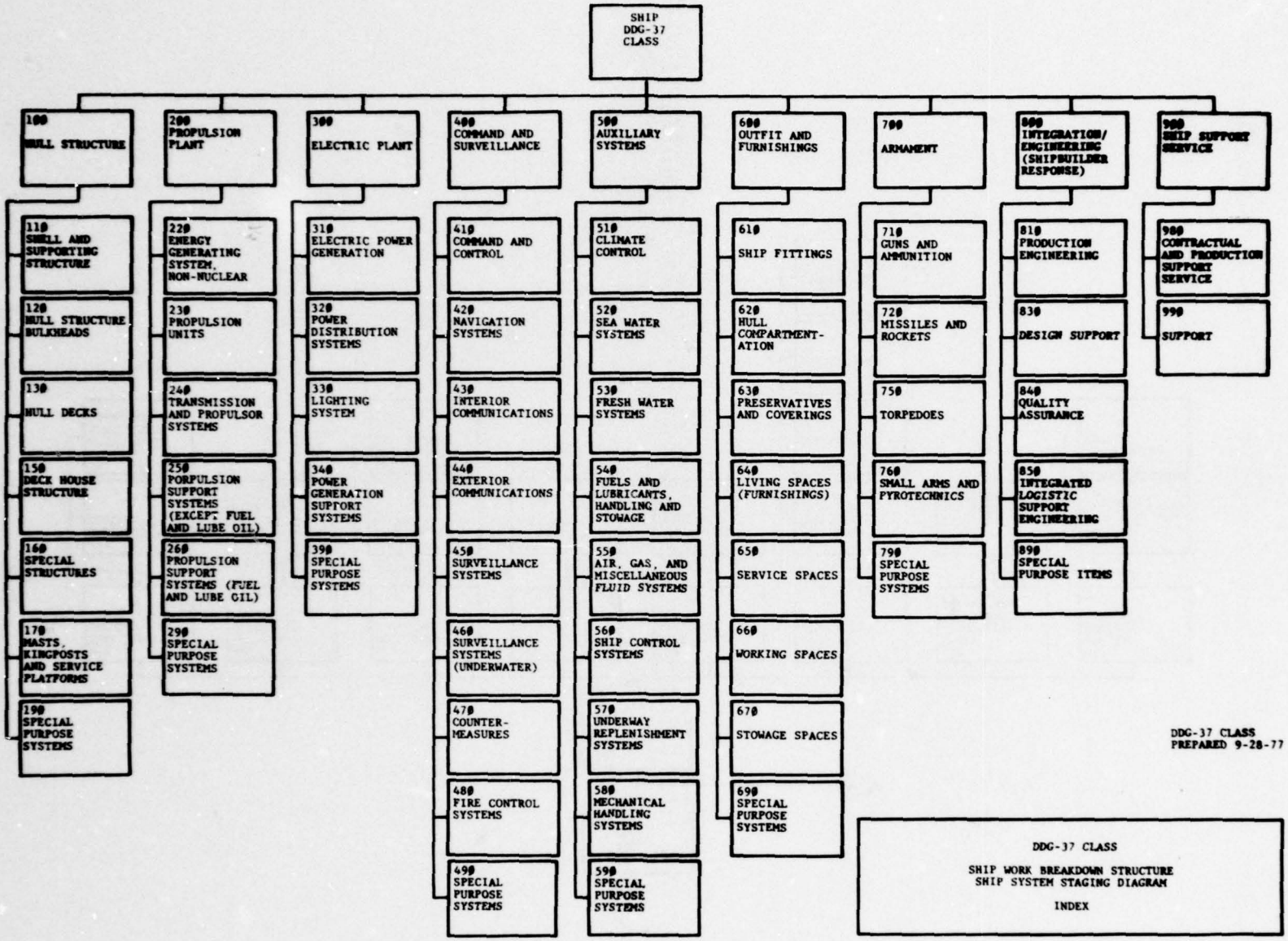
d. The term "With System", or "W.S.", indicates that the item is coded with the system of which it is a part or which it serves.

e. EIC cross-references are entered only in blocks with a direct cross-reference, i.e., same system, subsystem, and/or equipment as a SWBS classification.

f. Work center assignments are representative. Use of the SSSD for specific ships of the class will require verification of applicable work centers.

SHIP SYSTEMS STAGING DIAGRAMS

FOR DDG-37 CLASS SHIPS


SHIP
DDG-37
CLASS
100
HULL STRUCTURE
110
SHELL AND SUPPORTING STRUCTURE
120
HULL STRUCTURE BULKHEADS
130
HULL DECKS
150
DECK HOUSE STRUCTURE
160
SPECIAL STRUCTURES
170
MASTS, KINGPOSTS AND SERVICE PLATFORMS
190
SPECIAL PURPOSE SYSTEMS
200
PROPULSION PLANT
220
ENERGY GENERATING SYSTEM, NON-NUCLEAR
230
PROPULSION UNITS
240
TRANSMISSION AND PROPULSOR SYSTEMS
250
PORPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
260
PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)
290
SPECIAL PURPOSE SYSTEMS
300
ELECTRIC PLANT
310
ELECTRIC POWER GENERATION
320
POWER DISTRIBUTION SYSTEMS
330
LIGHTING SYSTEM
340
POWER GENERATION SUPPORT SYSTEMS
390
SPECIAL PURPOSE SYSTEMS
400
COMMAND AND SURVEILLANCE
410
COMMAND AND CONTROL
420
NAVIGATION SYSTEMS
430
INTERIOR COMMUNICATIONS
440
EXTERIOR COMMUNICATIONS
450
SURVEILLANCE SYSTEMS
460
SURVEILLANCE SYSTEMS (UNDERWATER)
470
COUNTER-MEASURES
480
FIRE CONTROL SYSTEMS
490
SPECIAL PURPOSE SYSTEMS
500
AUXILIARY SYSTEMS
510
CLIMATE CONTROL
520
SEA WATER SYSTEMS
530
FRESH WATER SYSTEMS
540
FUELS AND LUBRICANTS, HANDLING AND STOWAGE
550
AIR, GAS, AND MISCELLANEOUS FLUID SYSTEMS
560
SHIP CONTROL SYSTEMS
570
UNDERWAY REPLENISHMENT SYSTEMS
580
MECHANICAL HANDLING SYSTEMS
590
SPECIAL PURPOSE SYSTEMS
600
OUTFIT AND FURNISHINGS
610
SHIP FITTINGS
620
HULL COMPARTMENT-ATION
630
PRESERVATIVES AND COVERINGS
640
LIVING SPACES (FURNISHINGS)
650
SERVICE SPACES
660
WORKING SPACES
670
STOWAGE SPACES
690
SPECIAL PURPOSE SYSTEMS
700
ARMAMENT
710
GUNS AND AMMUNITION
720
MISSILES AND ROCKETS
750
TORPEDOES
760
SMALL ARMS AND PYROTECHNICS
790
SPECIAL PURPOSE SYSTEMS
800
INTEGRATION/ ENGINEERING (SHIPBUILDER RESPONSE)
810
PRODUCTION ENGINEERING
830
DESIGN SUPPORT
840
QUALITY ASSURANCE
850
INTEGRATED LOGISTIC SUPPORT ENGINEERING
890
SPECIAL PURPOSE ITEMS
900
SHIP SUPPORT SERVICE
900
CONTRACTUAL AND PRODUCTION SUPPORT SERVICE
990
SUPPORT
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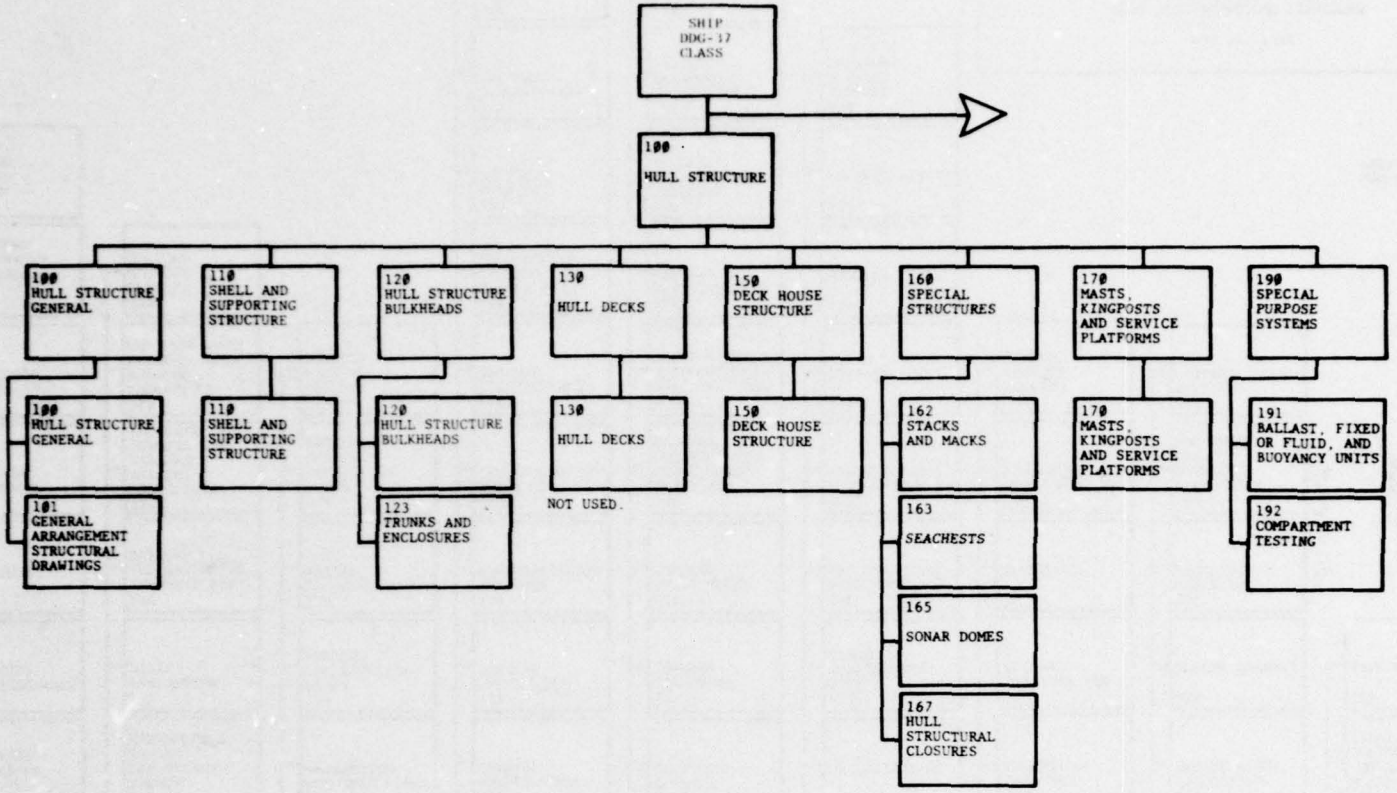
DDG-37 CLASS
SHIP WORK BREAKDOWN STRUCTURE
SHIP SYSTEM STAGING DIAGRAM
INDEX



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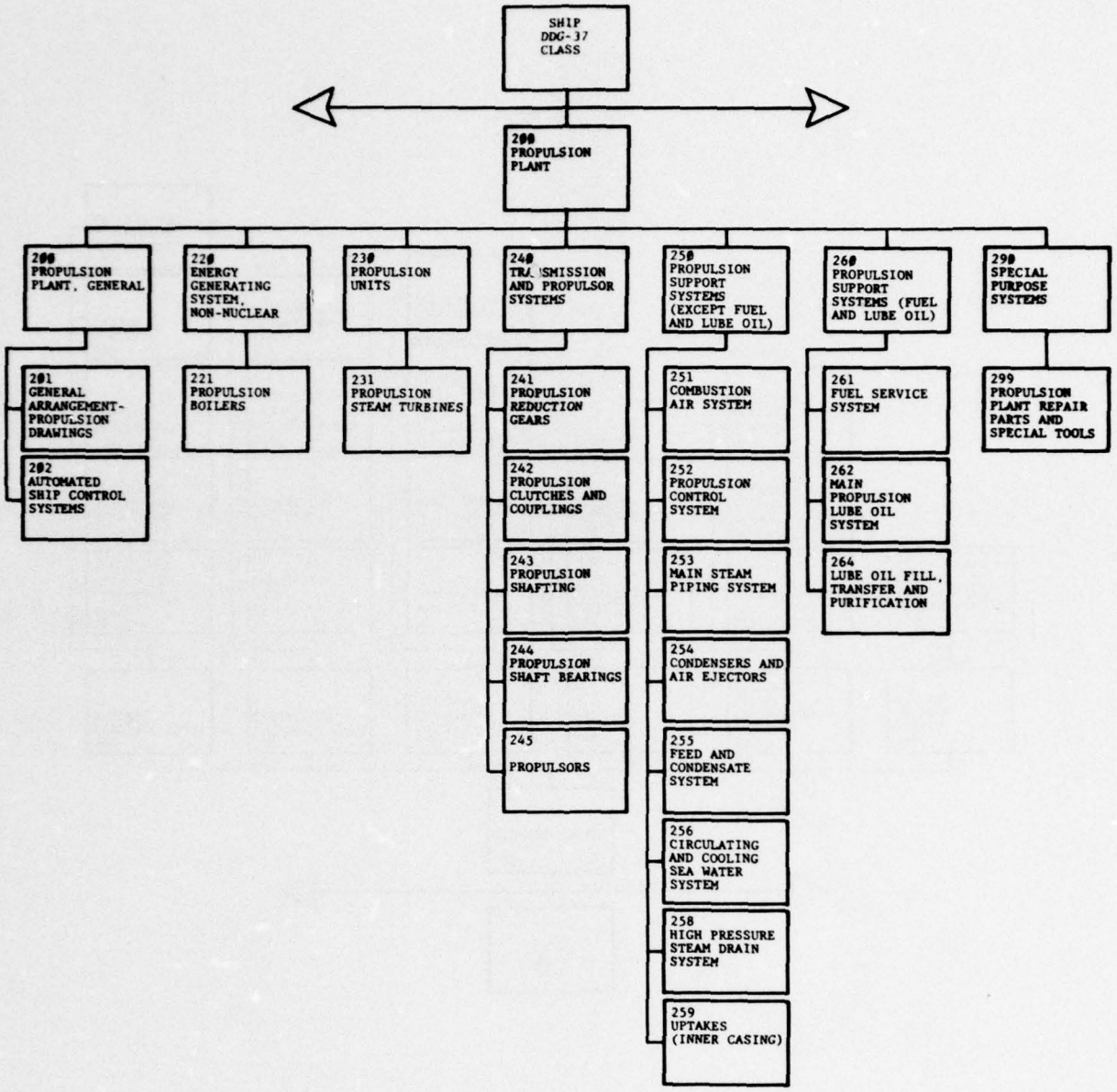

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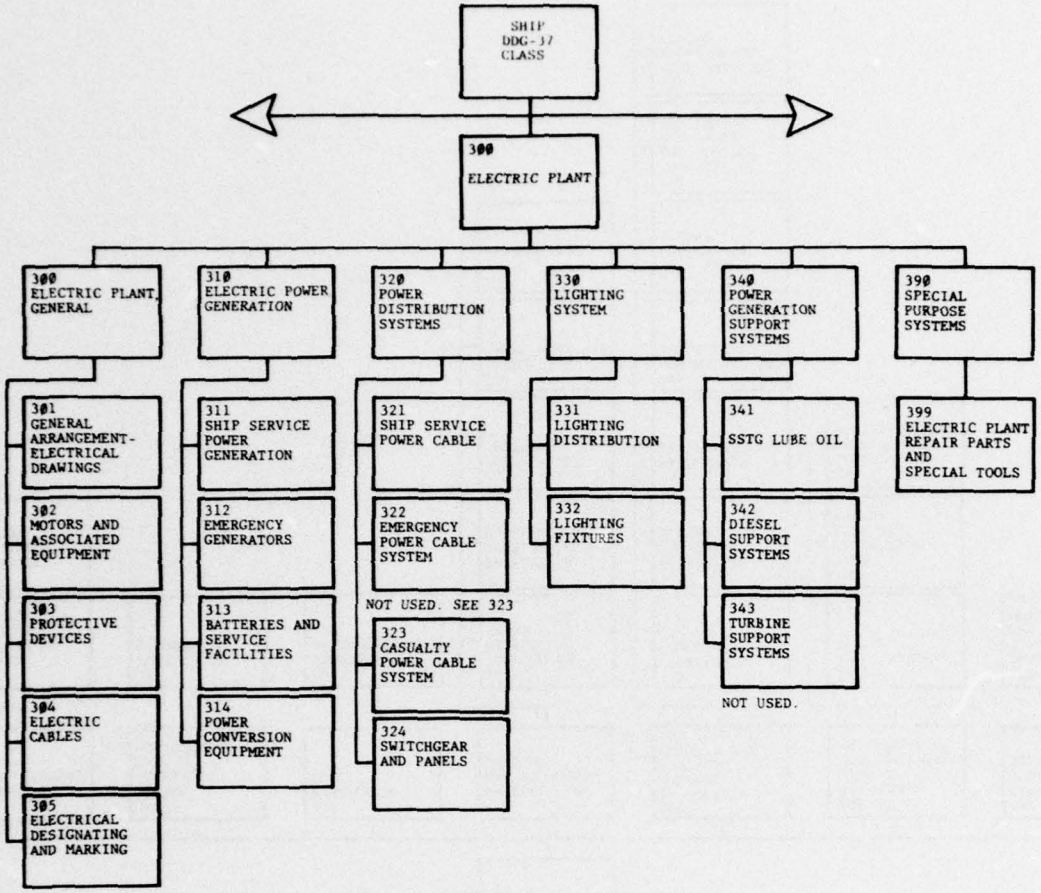

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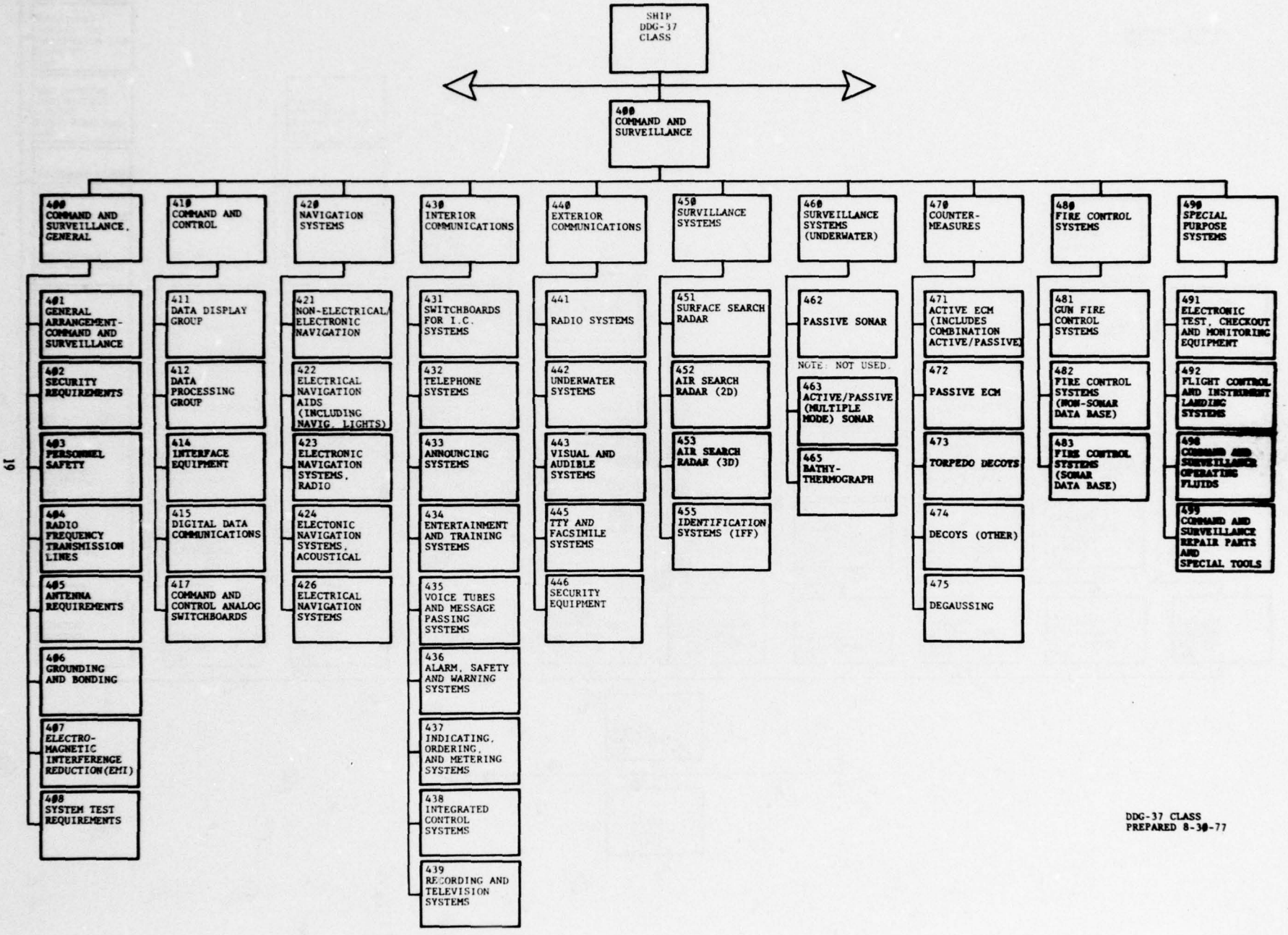

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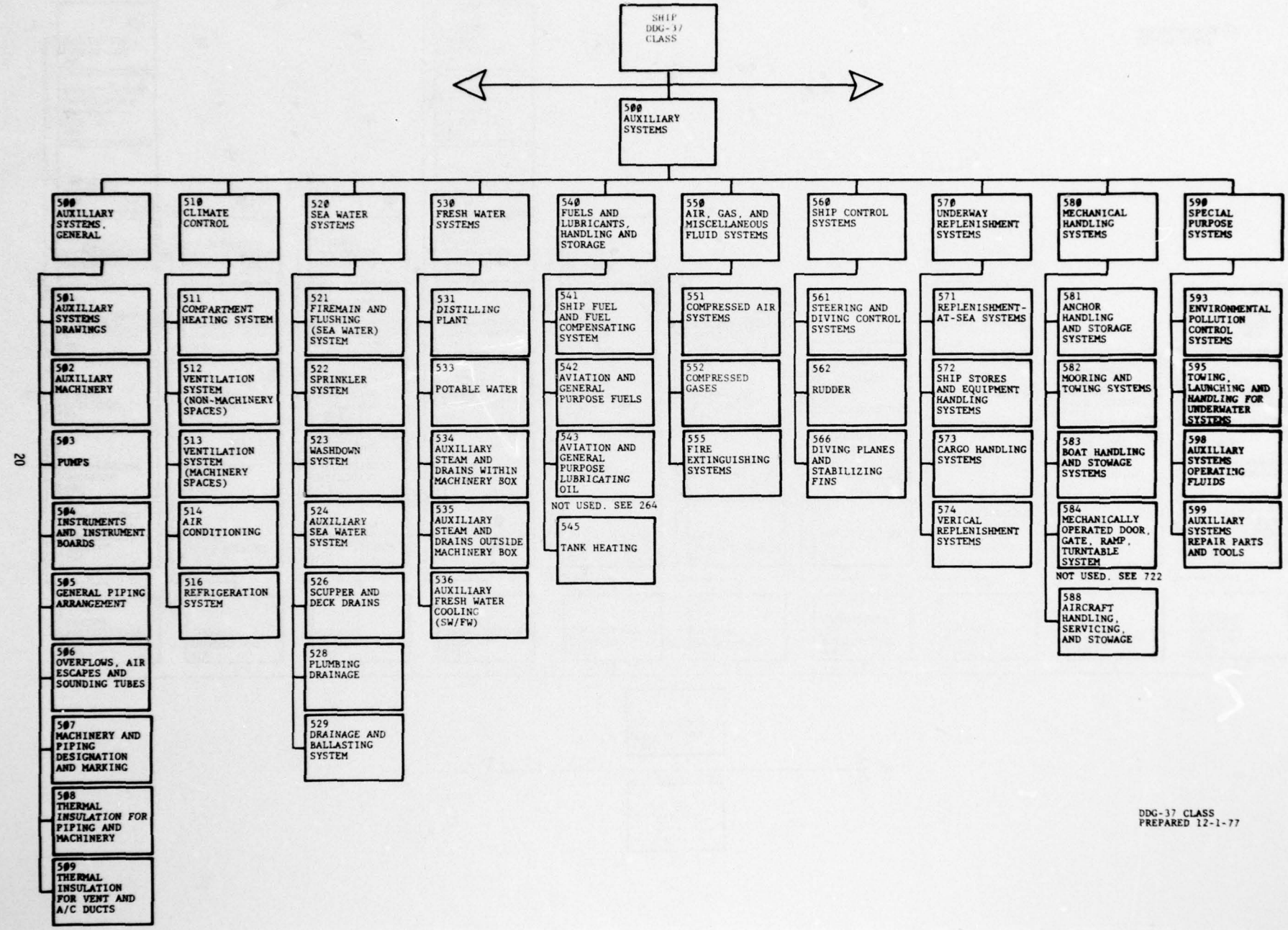

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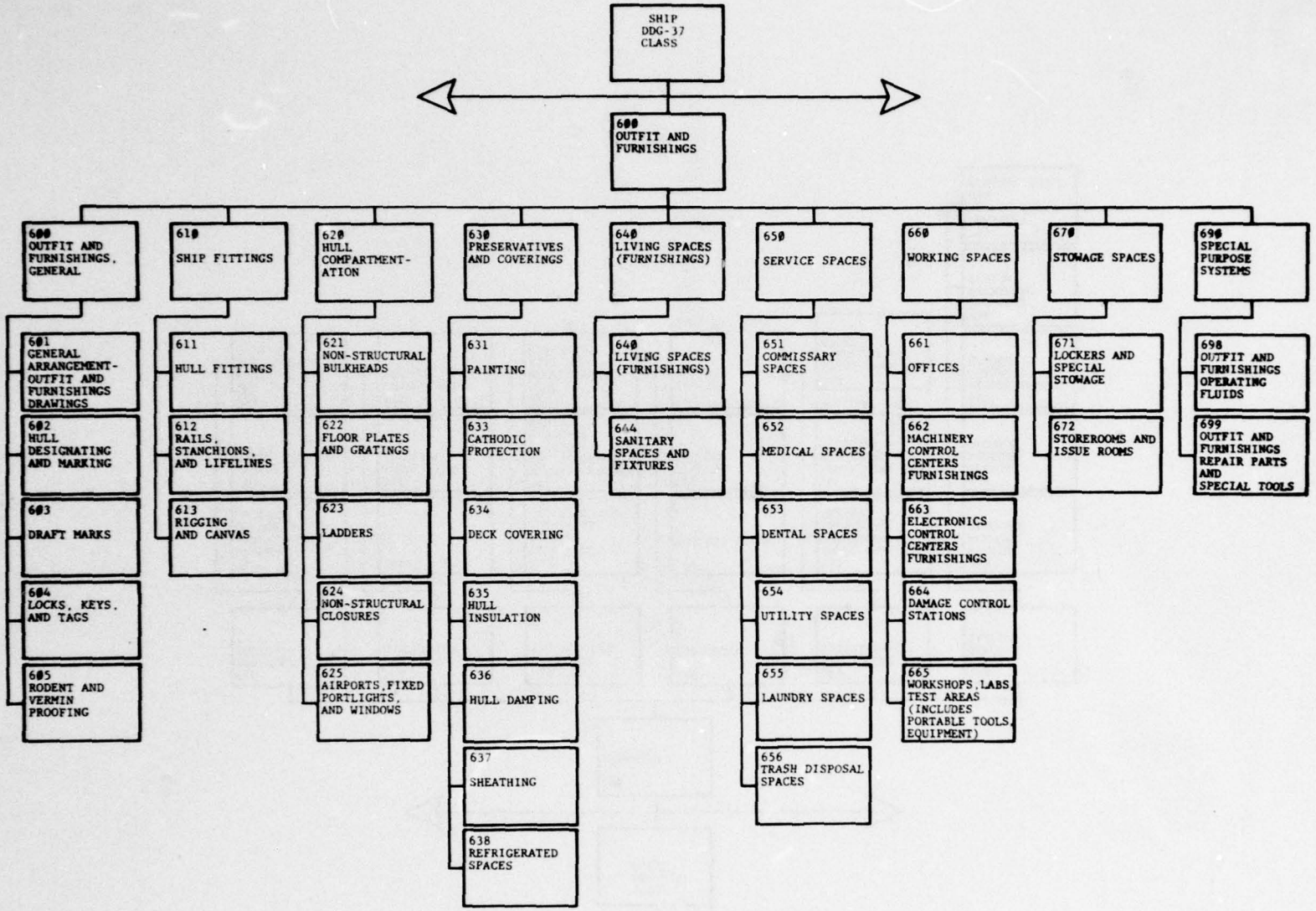

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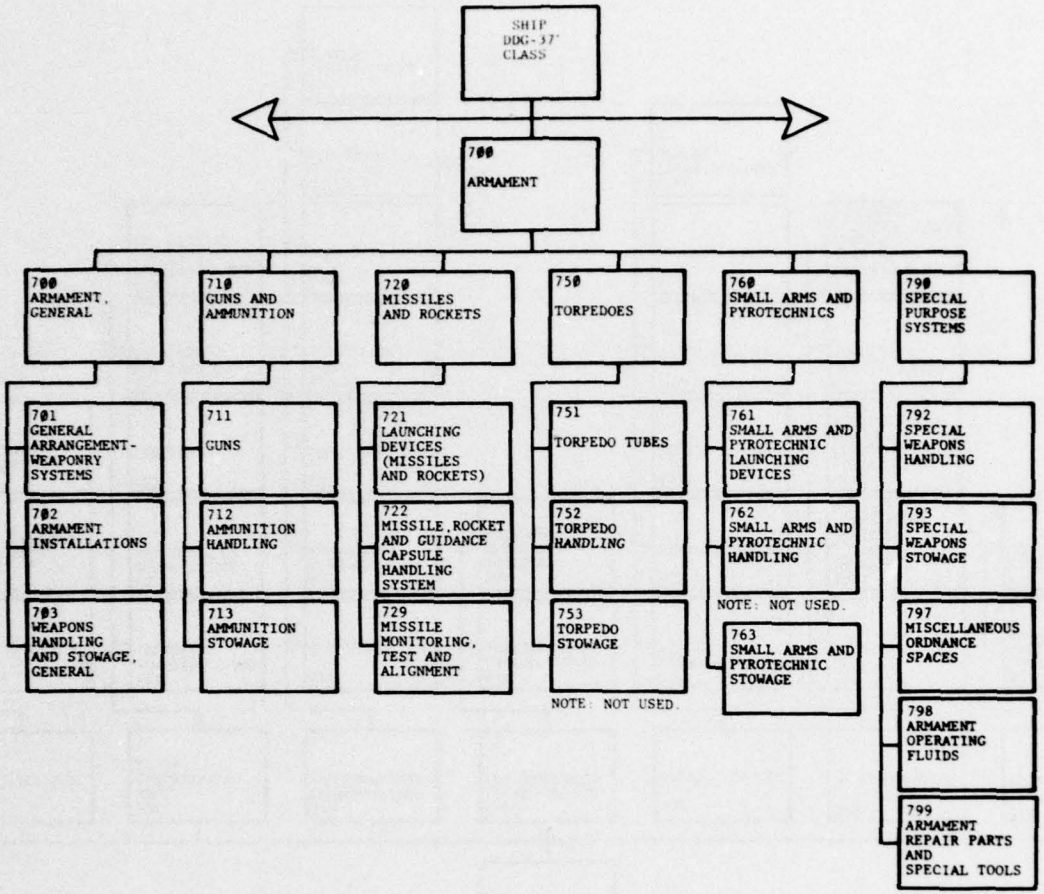

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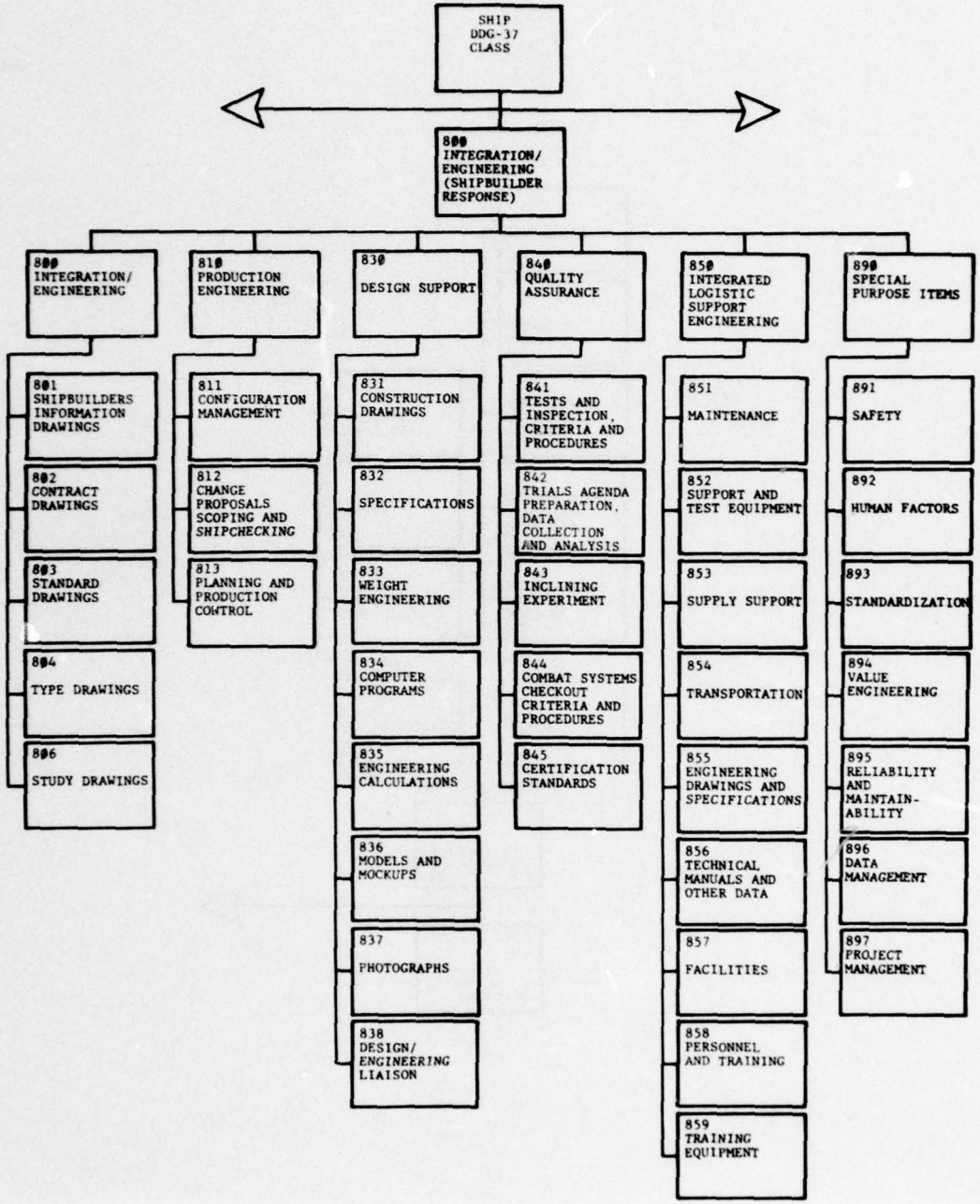

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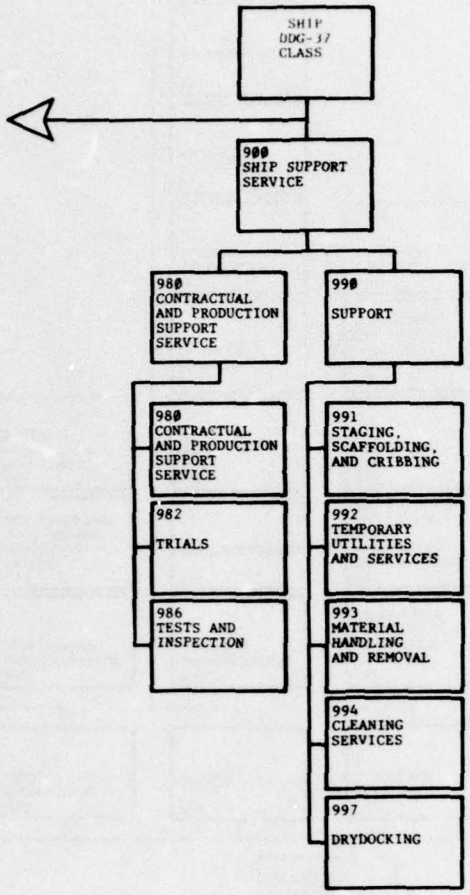

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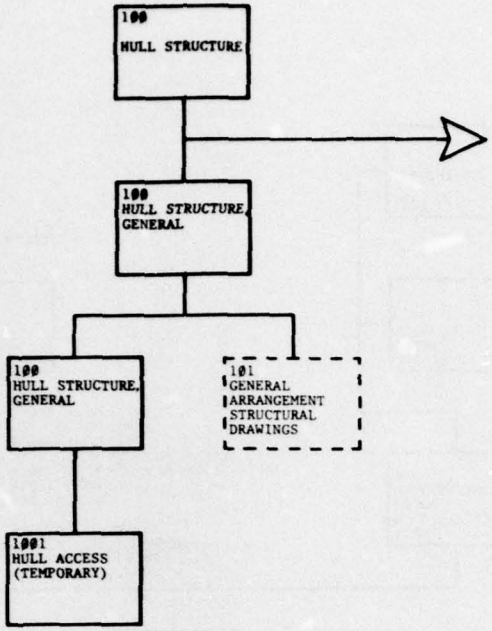

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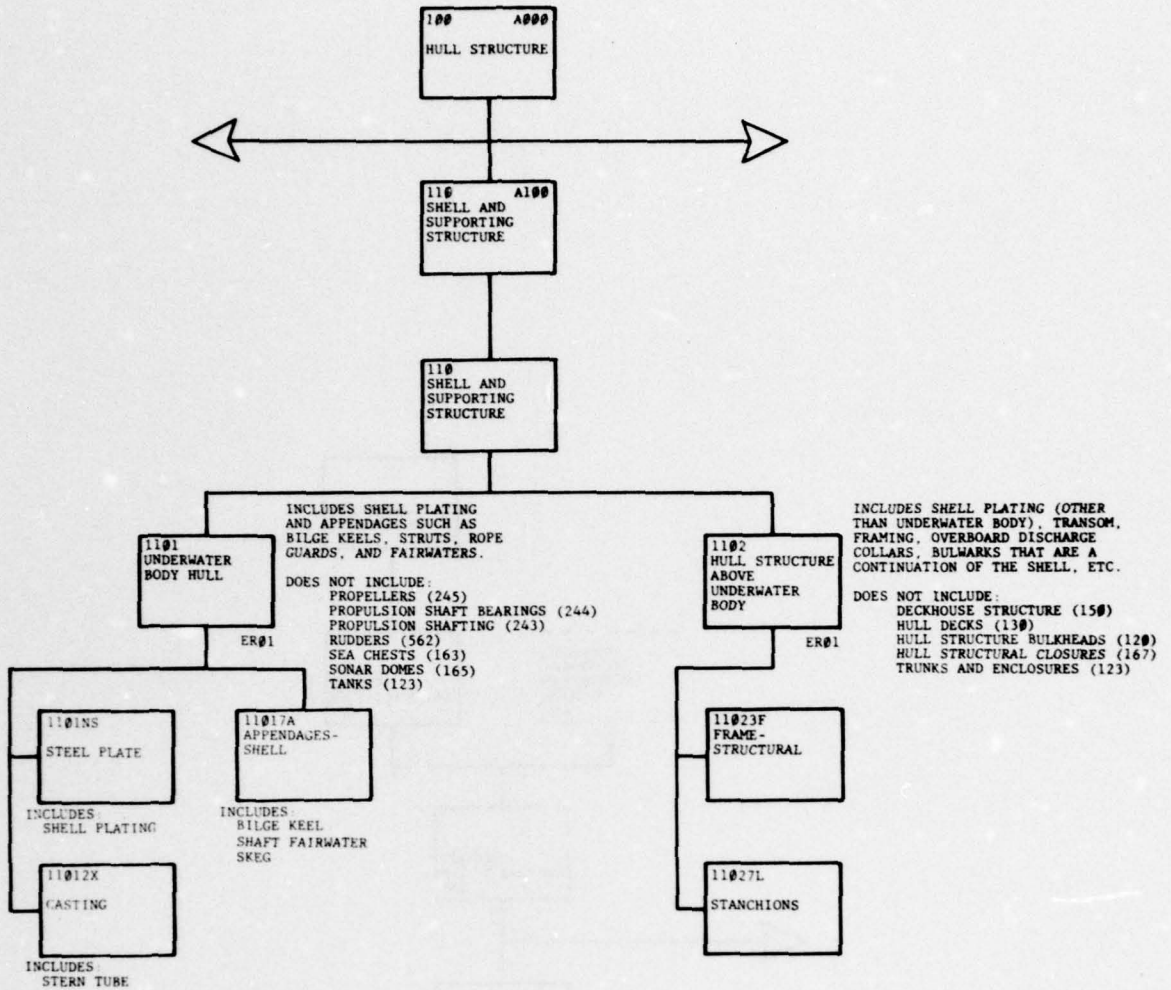

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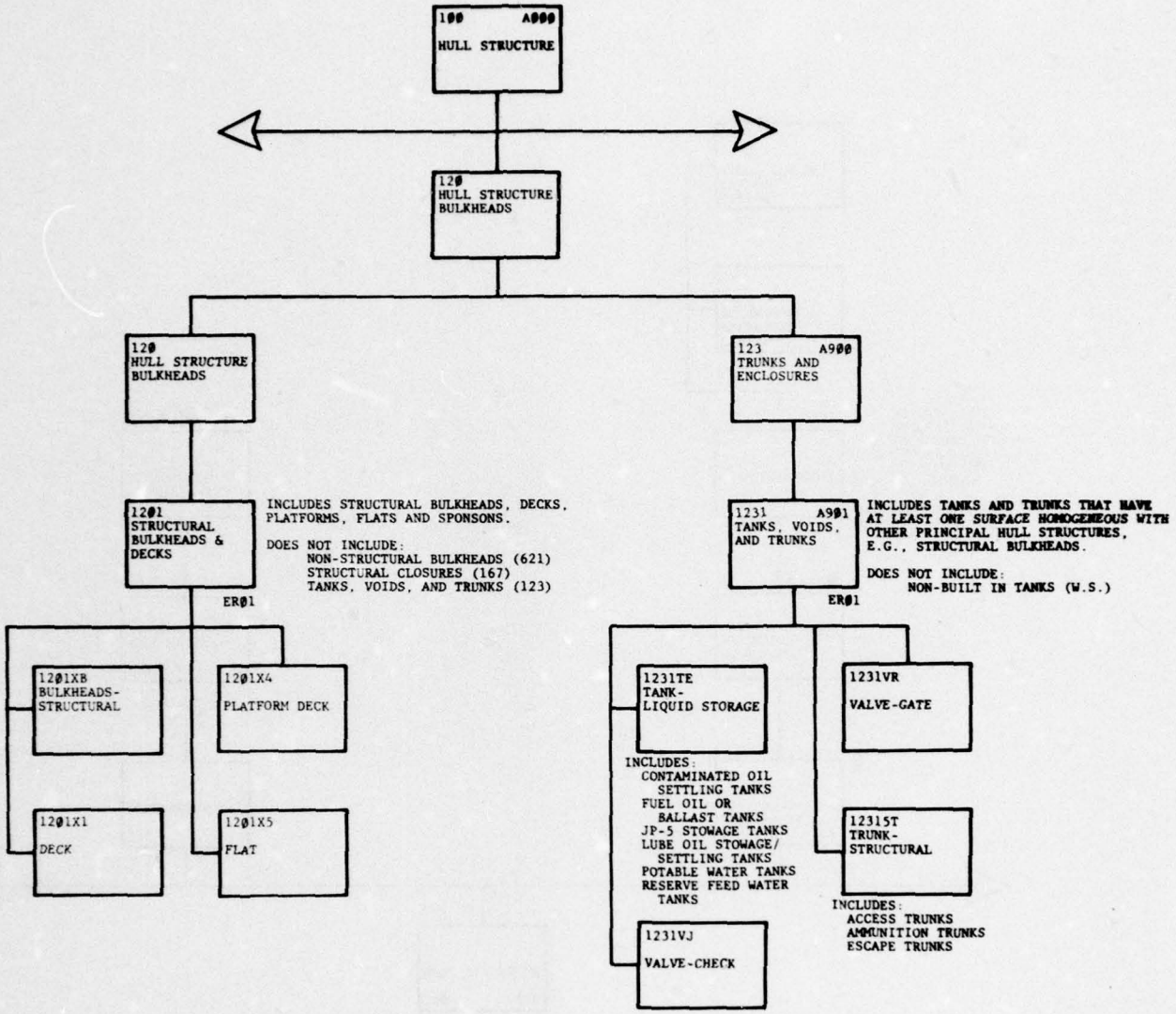

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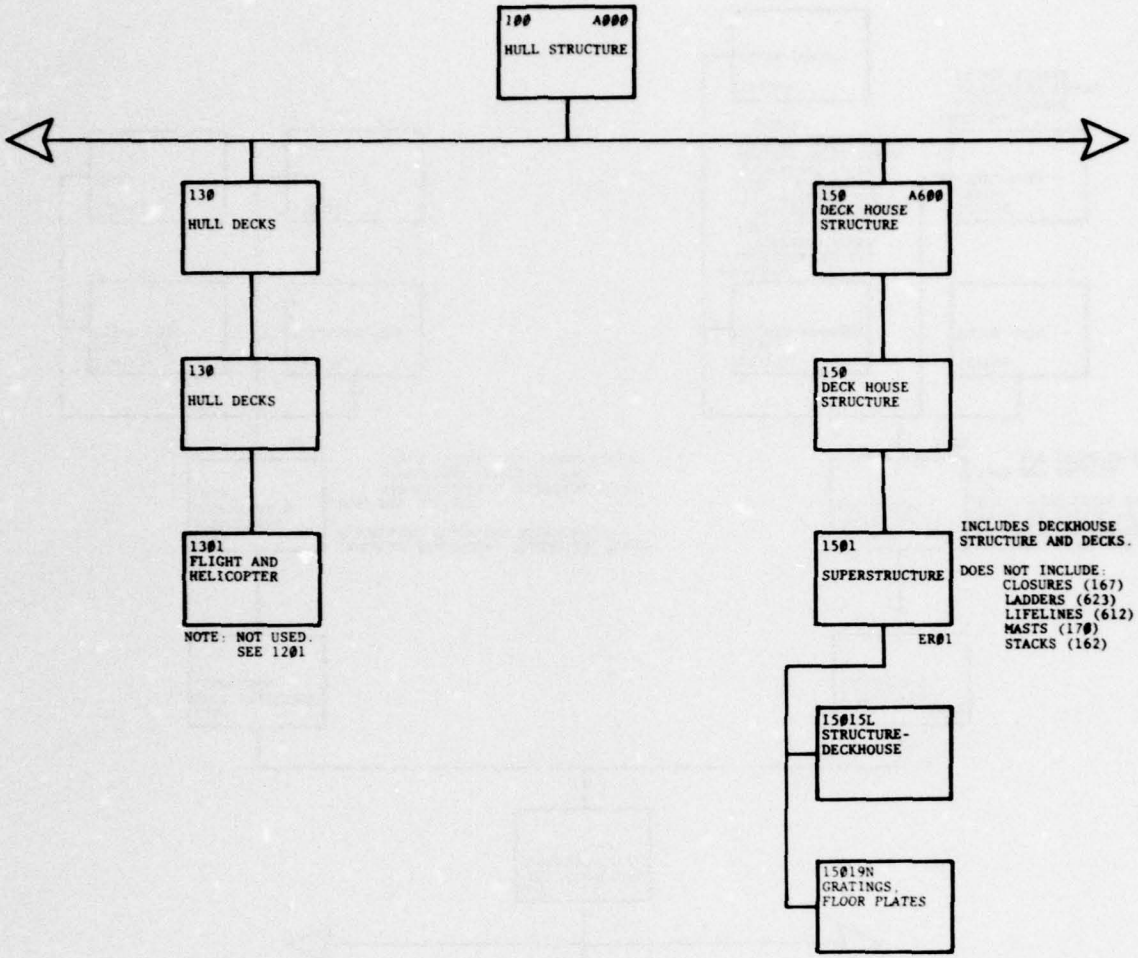

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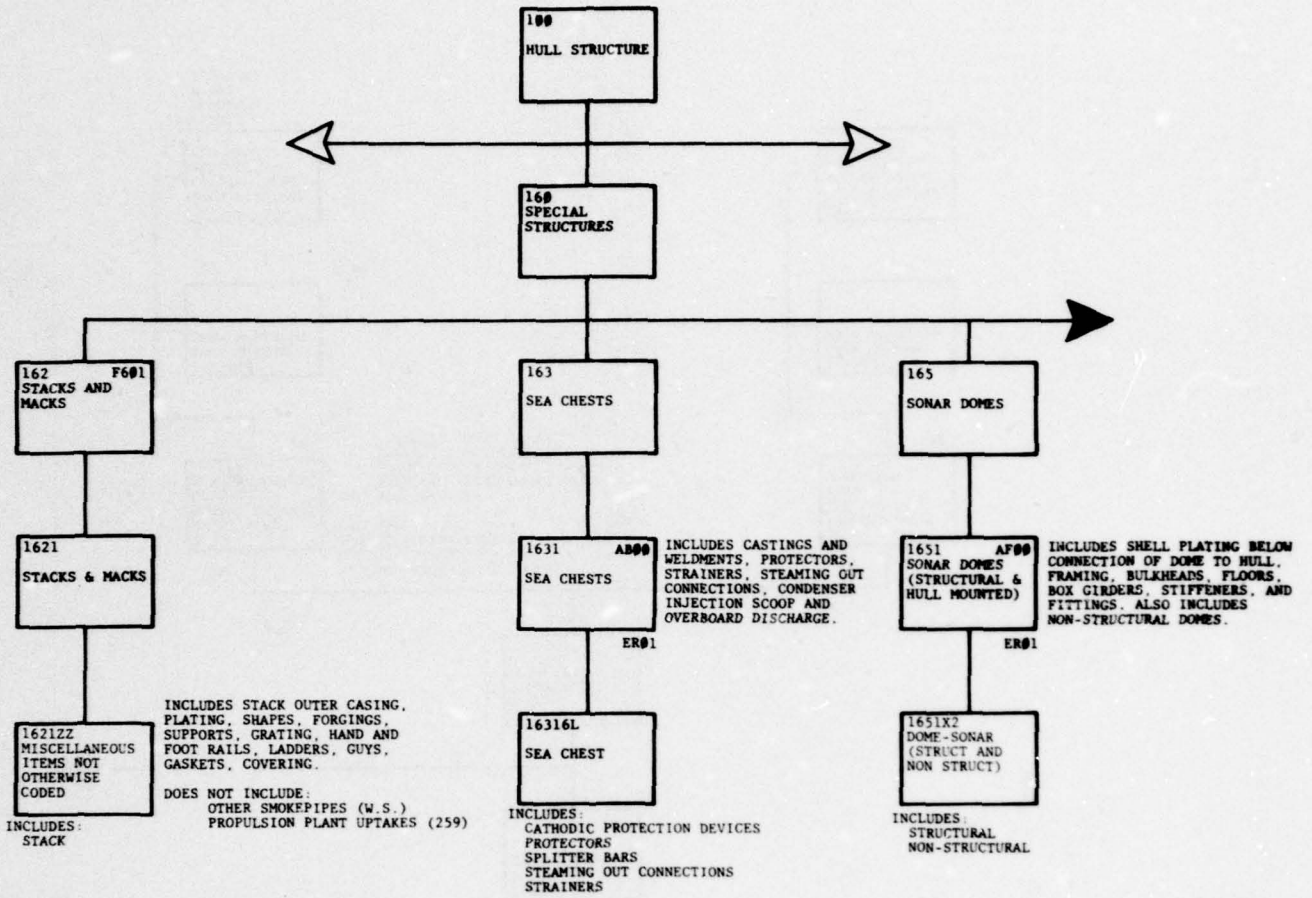
100
HULL STRUCTURE
160
SPECIAL STRUCTURES
162 F601
STACKS AND MACKS
1621
STACKS & MACKS
1621ZZ
MISCELLANEOUS ITEMS NOT OTHERWISE CODED
INCLUDES:
STACK
INCLUDES STACK OUTER CASING, PLATING, SHAPES, FORGINGS, SUPPORTS, GRATING, HAND AND FOOT RAILS, LADDERS, GUYS, GASKETS, COVERING.
DOES NOT INCLUDE:
OTHER SMOKEPIPES (W.S.)
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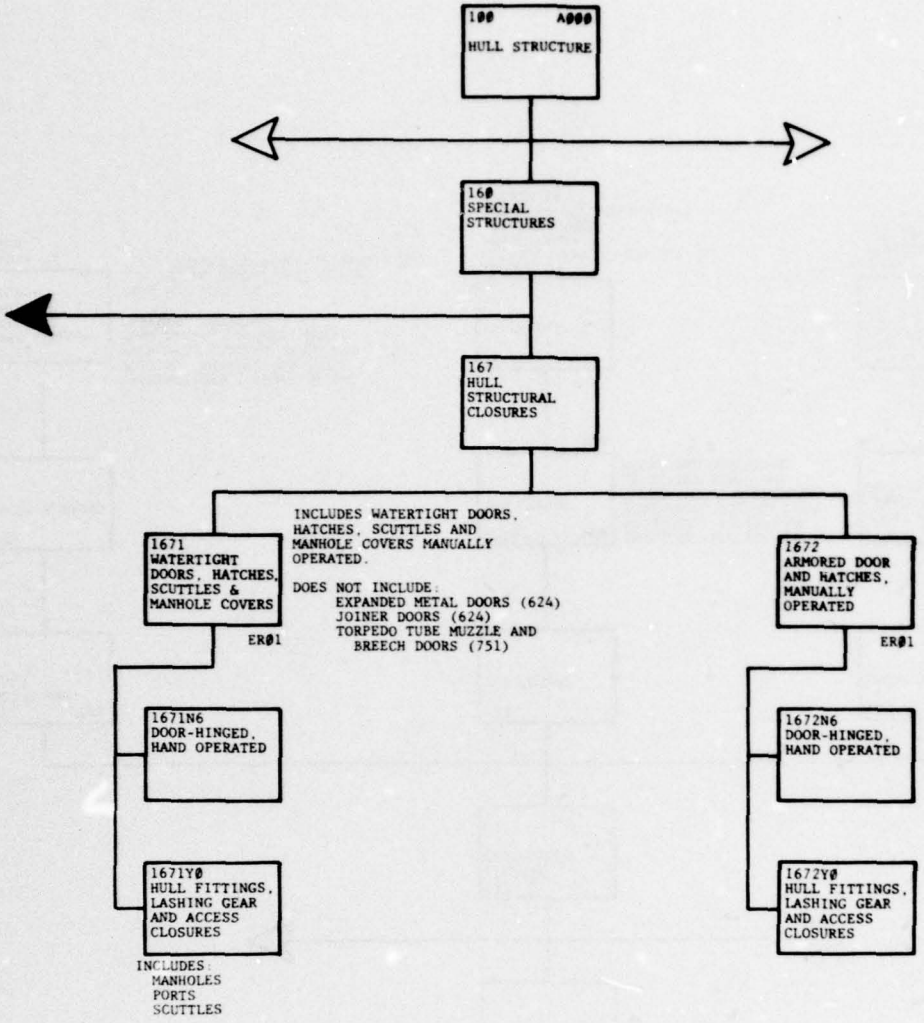
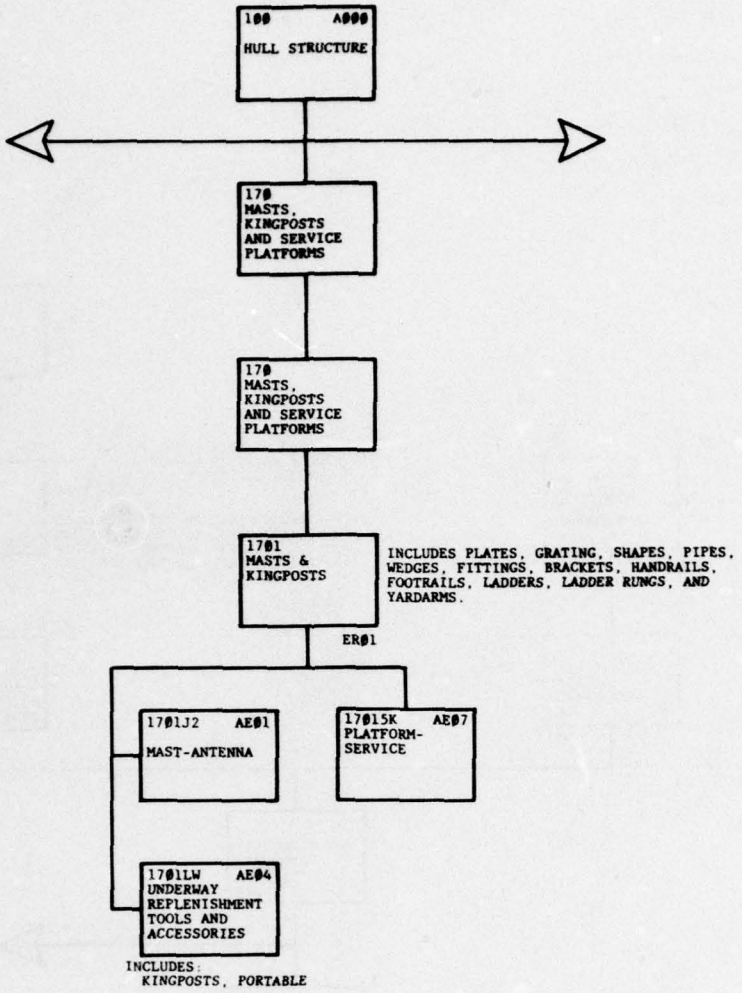
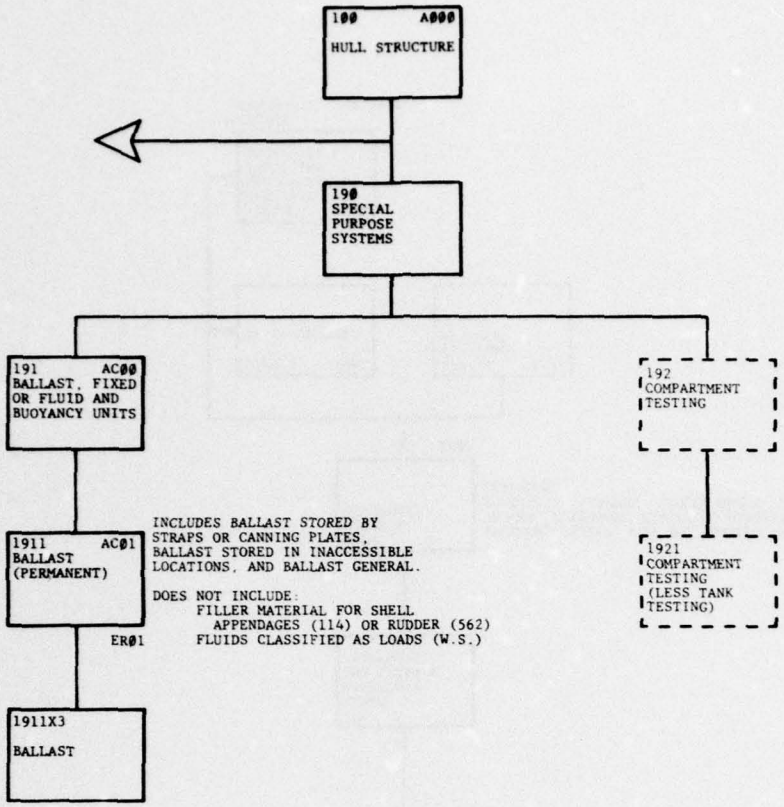
SEA CHESTS
ER01
INCLUDES CASTINGS AND WELDMENTS, PROTECTORS, STRAINERS, STEAMING OUT CONNECTIONS, CONDENSER INJECTION SCOOP AND OVERBOARD DISCHARGE.
16316L
SEA CHEST
INCLUDES:
CATHODIC PROTECTION DEVICES
PROTECTORS
SPLITTER BARS
STEAMING OUT CONNECTIONS
STRAINERS
165
SONAR DOMES
1651 AF00
SONAR DOMES (STRUCTURAL & HULL MOUNTED)
ER01
INCLUDES SHELL PLATING BELOW CONNECTION OF DOME TO HULL, FRAMING, BULKHEADS, FLOORS, BOX GIRDERS, STIFFENERS, AND FITTINGS. ALSO INCLUDES NON-STRUCTURAL DOMES.
1651X2
DOME-SONAR (STRUCT AND NON STRUCT)
INCLUDES:
STRUCTURAL
NON-STRUCTURAL



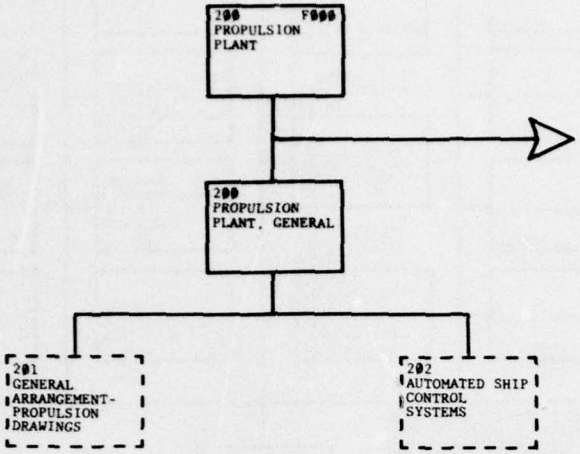
DDG-37 CLASS
PREPARED 8-19-77

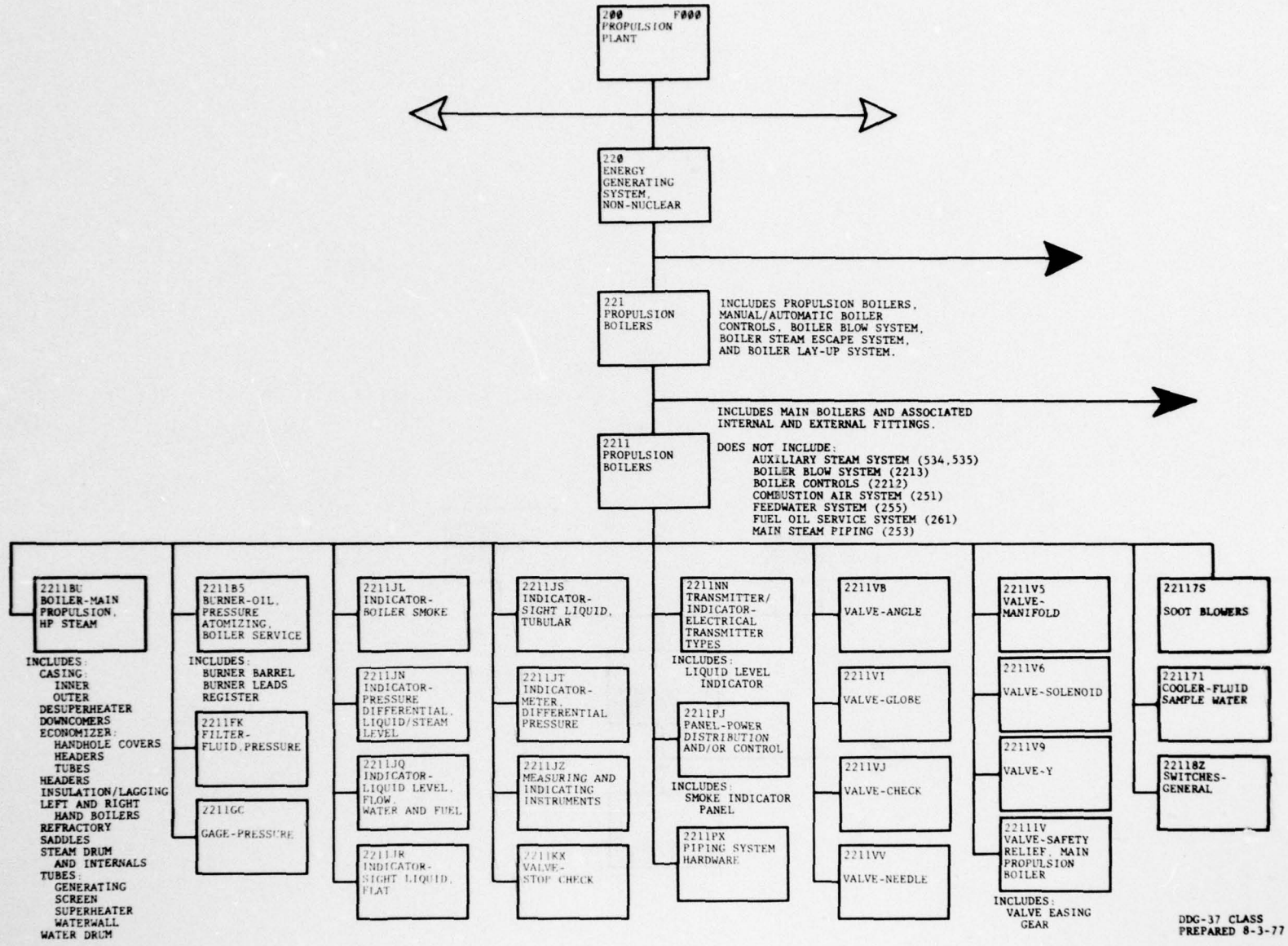


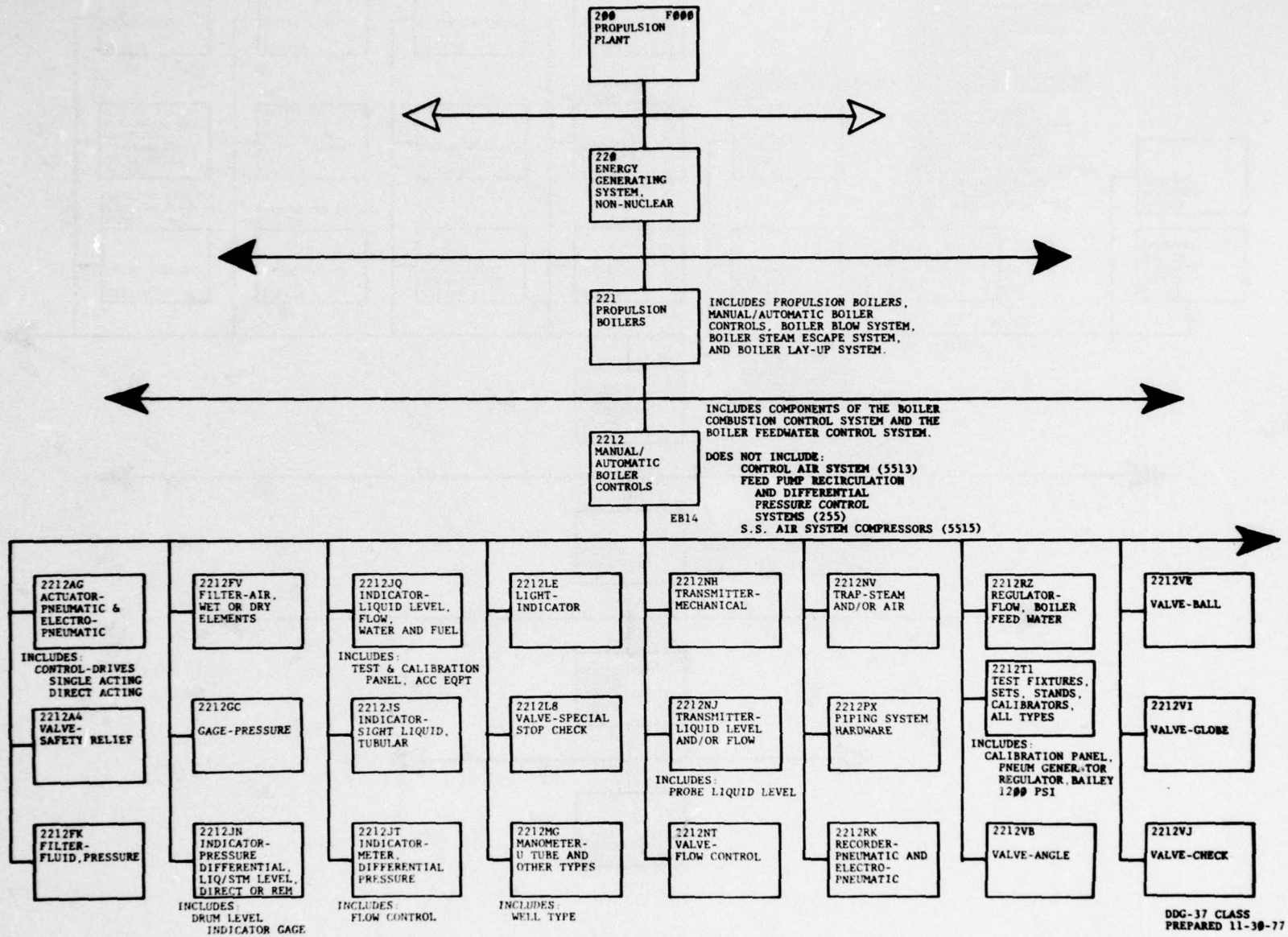
DDG-37 CLASS
PREPARED 8-19-77

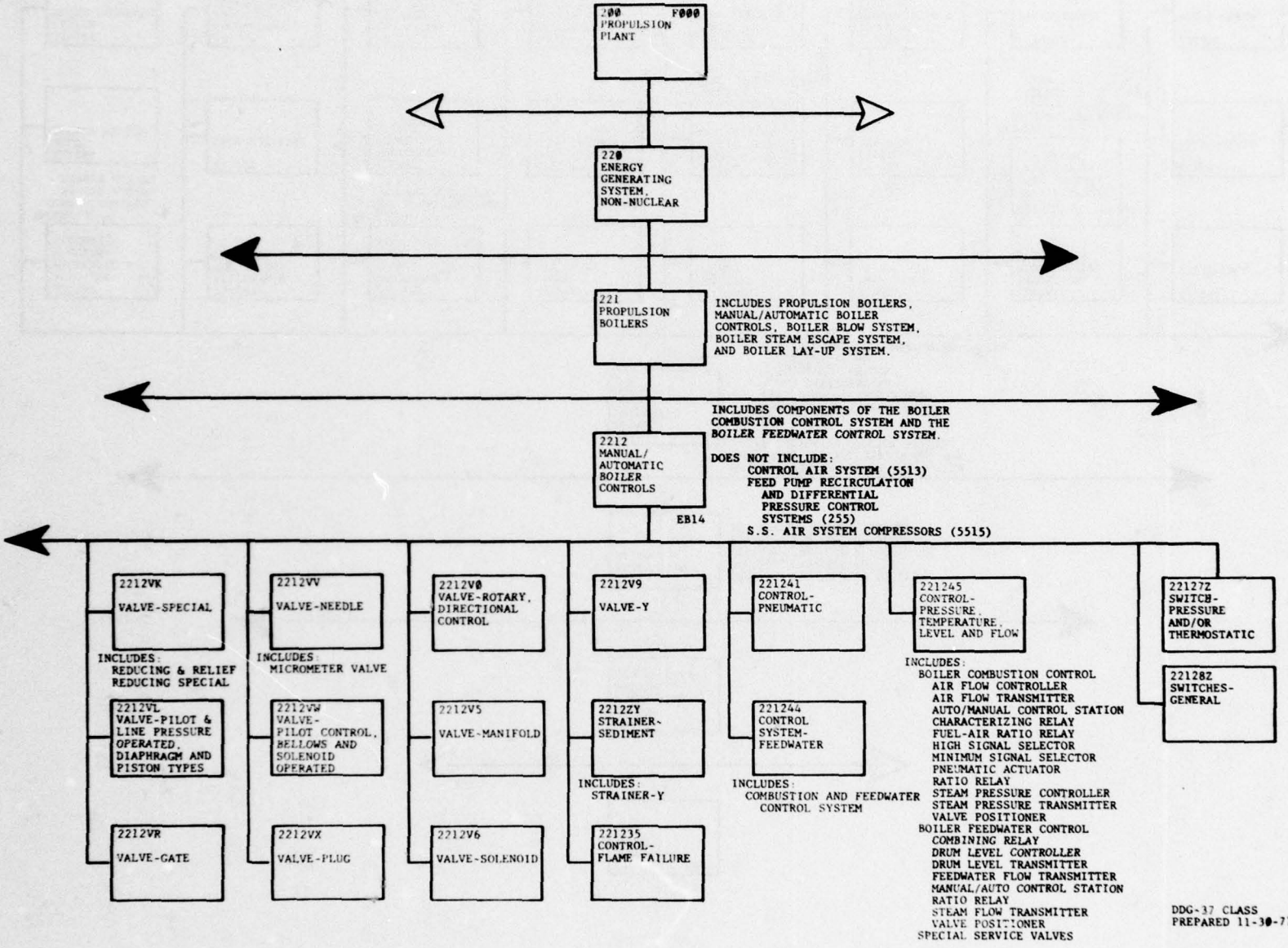


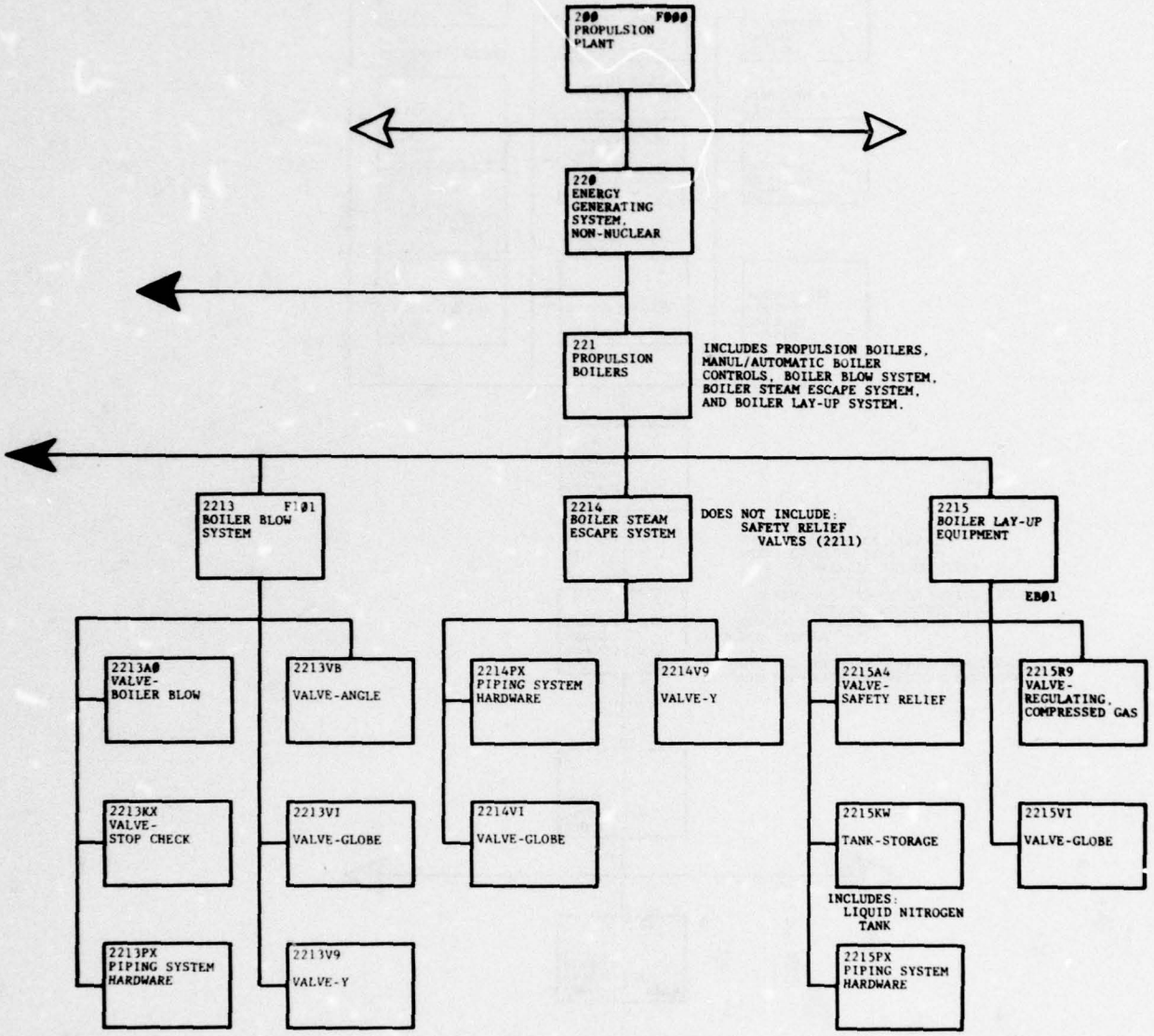
DDG-37 CLASS
PREPARED 8-19-77


200 F000
PROPULSION PLANT
200
PROPULSION PLANT, GENERAL
201
GENERAL ARRANGEMENT-PROPULSION DRAWINGS
202
AUTOMATED SHIP CONTROL SYSTEMS

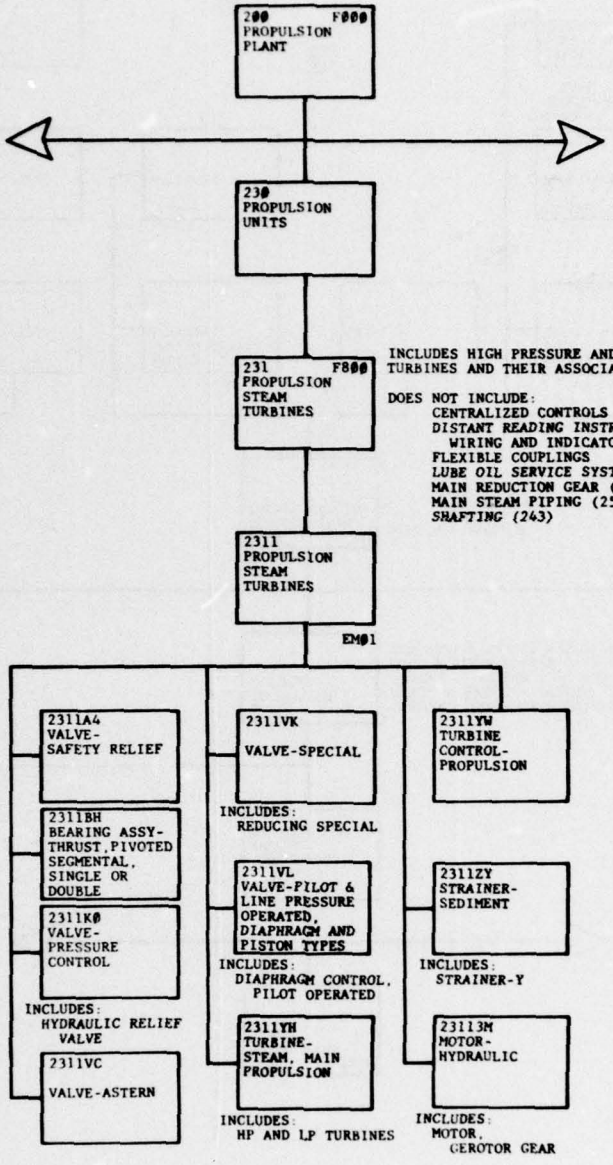

200 F000
PROPULSION PLANT
220
ENERGY GENERATING SYSTEM, NON-NUCLEAR
221
PROPULSION BOILERS
INCLUDES PROPULSION BOILERS, MANUAL/AUTOMATIC BOILER CONTROLS, BOILER BLOW SYSTEM, BOILER STEAM ESCAPE SYSTEM, AND BOILER LAY-UP SYSTEM.
2211
PROPULSION BOILERS
INCLUDES MAIN BOILERS AND ASSOCIATED INTERNAL AND EXTERNAL FITTINGS.
DOES NOT INCLUDE:
AUXILIARY STEAM SYSTEM (534,535)
BOILER BLOW SYSTEM (2213)
BOILER CONTROLS (2212)
COMBUSTION AIR SYSTEM (251)
FEEDWATER SYSTEM (255)
FUEL OIL SERVICE SYSTEM (261)
MAIN STEAM PIPING (253)
2211BU
BOILER-MAIN PROPULSION, HP STEAM
INCLUDES:
CASING:
INNER
OUTER
DESUPERHEATER
DOWNCOMERS
ECONOMIZER:
HANDHOLE COVERS
HEADERS
TUBES
HEADERS
INSULATION/LAGGING
LEFT AND RIGHT HAND BOILERS
REFRACTORY
SADDLES
STEAM DRUM AND INTERNALS
TUBES:
GENERATING
SCREEN
SUPERHEATER
WATERWALL
WATER DRUM
2211B5
BURNER-OIL, PRESSURE ATOMIZING, BOILER SERVICE
INCLUDES:
BURNER BARREL
BURNER LEADS
REGISTER
2211FK
FILTER-FLUID, PRESSURE
2211GC
GAGE-PRESSURE
2211JL
INDICATOR-BOILER SMOKE
2211JN
INDICATOR-PRESSURE DIFFERENTIAL, LIQUID/STEAM LEVEL
2211JQ
INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
2211JR
INDICATOR-SIGHT LIQUID, FLAT
2211JS
INDICATOR-SIGHT LIQUID, TUBULAR
2211JT
INDICATOR-METER, DIFFERENTIAL PRESSURE
2211JZ
MEASURING AND INDICATING INSTRUMENTS
2211KX
VALVE-STOP CHECK
2211NN
TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES:
LIQUID LEVEL INDICATOR
2211PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
SMOKE INDICATOR PANEL
2211PX
PIPING SYSTEM HARDWARE
2211VB
VALVE-ANGLE
2211VI
VALVE-GLOBE
2211VJ
VALVE-CHECK
2211VV
VALVE-NEEDLE
2211V5
VALVE-MANIFOLD
2211V6
VALVE-SOLENOID
2211V9
VALVE-Y
2211V
VALVE-SAFETY RELIEF, MAIN PROPULSION BOILER
INCLUDES:
VALVE EASING GEAR
22117S
SOOT BLOWERS
221171
COOLER-FLUID SAMPLE WATER
22118Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 8-3-77


200 F000
PROPULSION PLANT
220
ENERGY GENERATING SYSTEM, NON-NUCLEAR
221
PROPULSION BOILERS
INCLUDES PROPULSION BOILERS, MANUAL/AUTOMATIC BOILER CONTROLS, BOILER BLOW SYSTEM, BOILER STEAM ESCAPE SYSTEM, AND BOILER LAY-UP SYSTEM.
2212
MANUAL/ AUTOMATIC BOILER CONTROLS
EB14
INCLUDES COMPONENTS OF THE BOILER COMBUSTION CONTROL SYSTEM AND THE BOILER FEEDWATER CONTROL SYSTEM.
DOES NOT INCLUDE:
CONTROL AIR SYSTEM (5513)
FEED PUMP RECIRCULATION AND DIFFERENTIAL PRESSURE CONTROL SYSTEMS (255)
S.S. AIR SYSTEM COMPRESSORS (5515)
2212AG ACTUATOR-PNEUMATIC & ELECTRO-PNEUMATIC
INCLUDES: CONTROL-DRIVES SINGLE ACTING DIRECT ACTING
2212A4 VALVE-SAFETY RELIEF
2212FK FILTER-FLUID, PRESSURE
2212FV FILTER-AIR, WET OR DRY ELEMENTS
2212GC GAGE-PRESSURE
2212JN INDICATOR-PRESSURE DIFFERENTIAL, LIQ/STM LEVEL, DIRECT OR REM
INCLUDES: DRUM LEVEL INDICATOR GAGE
2212JQ INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
INCLUDES: TEST & CALIBRATION PANEL, ACC EQPT
2212JS INDICATOR-SIGHT LIQUID, TUBULAR
2212JT INDICATOR-METER, DIFFERENTIAL PRESSURE
INCLUDES: FLOW CONTROL
2212LE LIGHT-INDICATOR
2212L8 VALVE-SPECIAL STOP CHECK
2212MG MANOMETER-U TUBE AND OTHER TYPES
INCLUDES: WELL TYPE
2212NH TRANSMITTER-MECHANICAL
2212NJ TRANSMITTER-LIQUID LEVEL AND/OR FLOW
INCLUDES: PROBE LIQUID LEVEL
2212NT VALVE-FLOW CONTROL
2212NV TRAP-STEAM AND/OR AIR
2212PX PIPING SYSTEM HARDWARE
2212RK RECORDER-PNEUMATIC AND ELECTRO-PNEUMATIC
2212RZ REGULATOR-FLOW, BOILER FEED WATER
2212T1 TEST FIXTURES, SETS, STANDS, CALIBRATORS, ALL TYPES
INCLUDES: CALIBRATION PANEL, PNEUM GENERATOR REGULATOR, BAILEY 1200 PSI
2212VB VALVE-ANGLE
2212VE VALVE-BALL
2212VI VALVE-GLOBE
2212VJ VALVE-CHECK
DDG-37 CLASS
PREPARED 11-30-77

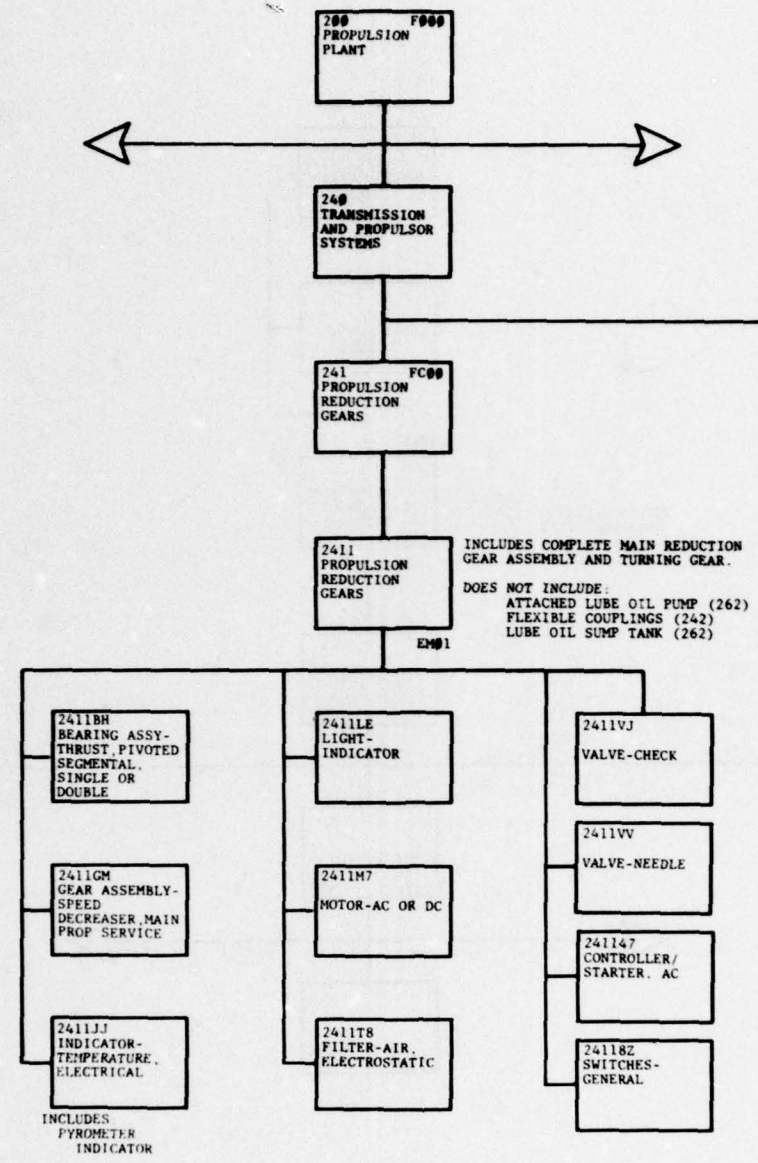

200 F000
PROPULSION PLANT
220
ENERGY GENERATING SYSTEM, NON-NUCLEAR
221
PROPULSION BOILERS
INCLUDES PROPULSION BOILERS, MANUAL/AUTOMATIC BOILER CONTROLS, BOILER BLOW SYSTEM, BOILER STEAM ESCAPE SYSTEM, AND BOILER LAY-UP SYSTEM.
2212
MANUAL/ AUTOMATIC BOILER CONTROLS
EB14
INCLUDES COMPONENTS OF THE BOILER COMBUSTION CONTROL SYSTEM AND THE BOILER FEEDWATER CONTROL SYSTEM.
DOES NOT INCLUDE:
CONTROL AIR SYSTEM (5513)
FEED PUMP RECIRCULATION AND DIFFERENTIAL PRESSURE CONTROL SYSTEMS (255)
S.S. AIR SYSTEM COMPRESSORS (5515)
2212VK
VALVE-SPECIAL
INCLUDES:
REDUCING & RELIEF
REDUCING SPECIAL
2212VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
2212VR
VALVE-GATE
2212VV
VALVE-NEEDLE
INCLUDES:
MICROMETER VALVE
2212VW
VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
2212VX
VALVE-PLUG
2212V0
VALVE-ROTARY, DIRECTIONAL CONTROL
2212V5
VALVE-MANIFOLD
2212V6
VALVE-SOLENOID
2212V9
VALVE-Y
2212ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER-Y
221235
CONTROL-FLAME FAILURE
221241
CONTROL-PNEUMATIC
221244
CONTROL SYSTEM-FEEDWATER
INCLUDES:
COMBUSTION AND FEEDWATER CONTROL SYSTEM
221245
CONTROL-PRESSURE, TEMPERATURE, LEVEL AND FLOW
INCLUDES:
BOILER COMBUSTION CONTROL
AIR FLOW CONTROLLER
AIR FLOW TRANSMITTER
AUTO/MANUAL CONTROL STATION
CHARACTERIZING RELAY
FUEL-AIR RATIO RELAY
HIGH SIGNAL SELECTOR
MINIMUM SIGNAL SELECTOR
PNEUMATIC ACTUATOR
RATIO RELAY
STEAM PRESSURE CONTROLLER
STEAM PRESSURE TRANSMITTER
VALVE POSITIONER
BOILER FEEDWATER CONTROL
COMBINING RELAY
DRUM LEVEL CONTROLLER
DRUM LEVEL TRANSMITTER
FEEDWATER FLOW TRANSMITTER
MANUAL/AUTO CONTROL STATION
RATIO RELAY
STEAM FLOW TRANSMITTER
VALVE POSITIONER
SPECIAL SERVICE VALVES
22127Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
22128Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-30-77



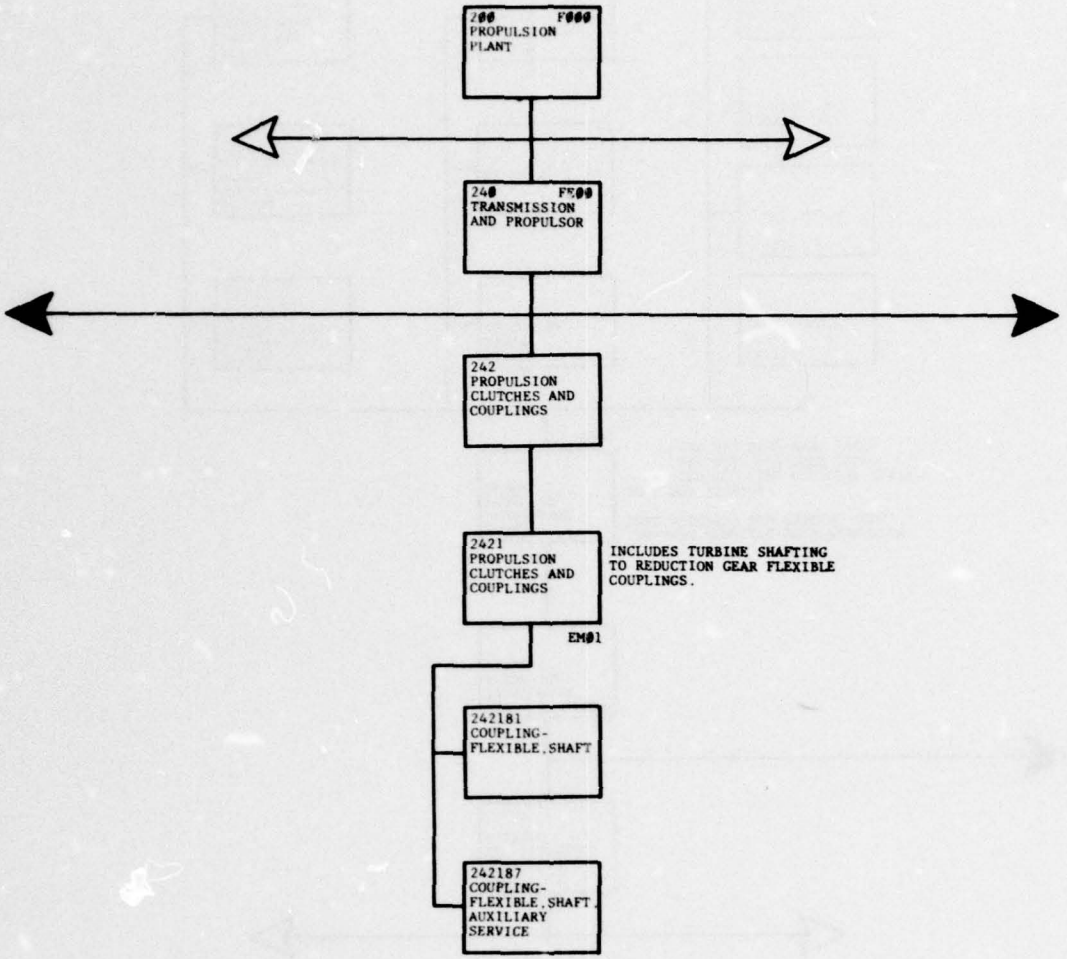
DDG-37 CLASS
PREPARED 8-3-77



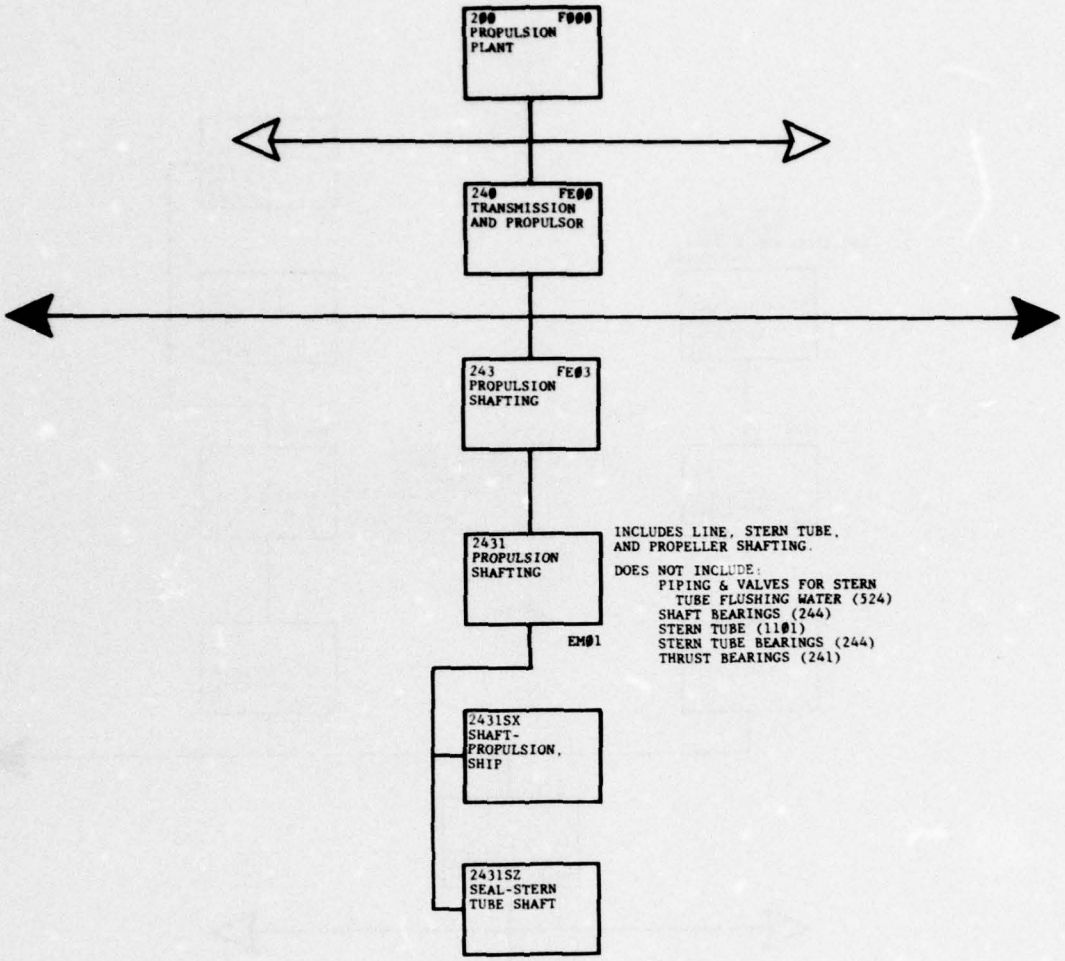
DDG-37 CLASS
PREPARED 11-28-77



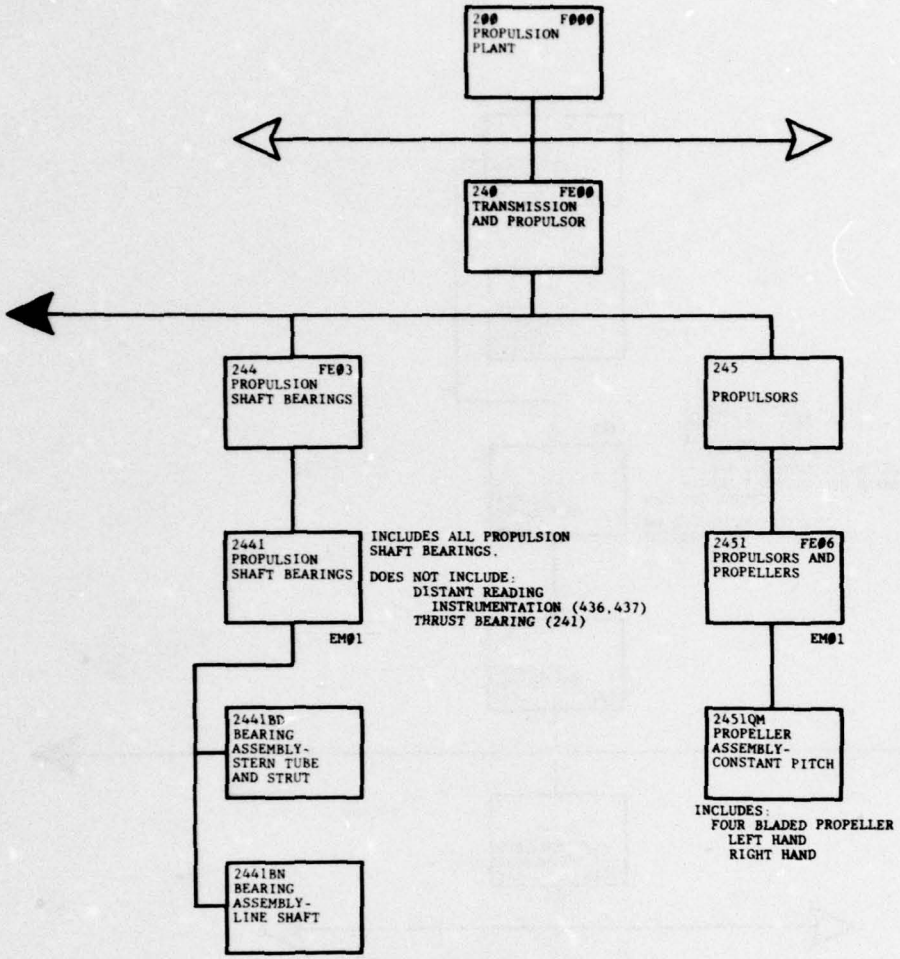
DDG-37 CLASS
PREPARED 8-3-77



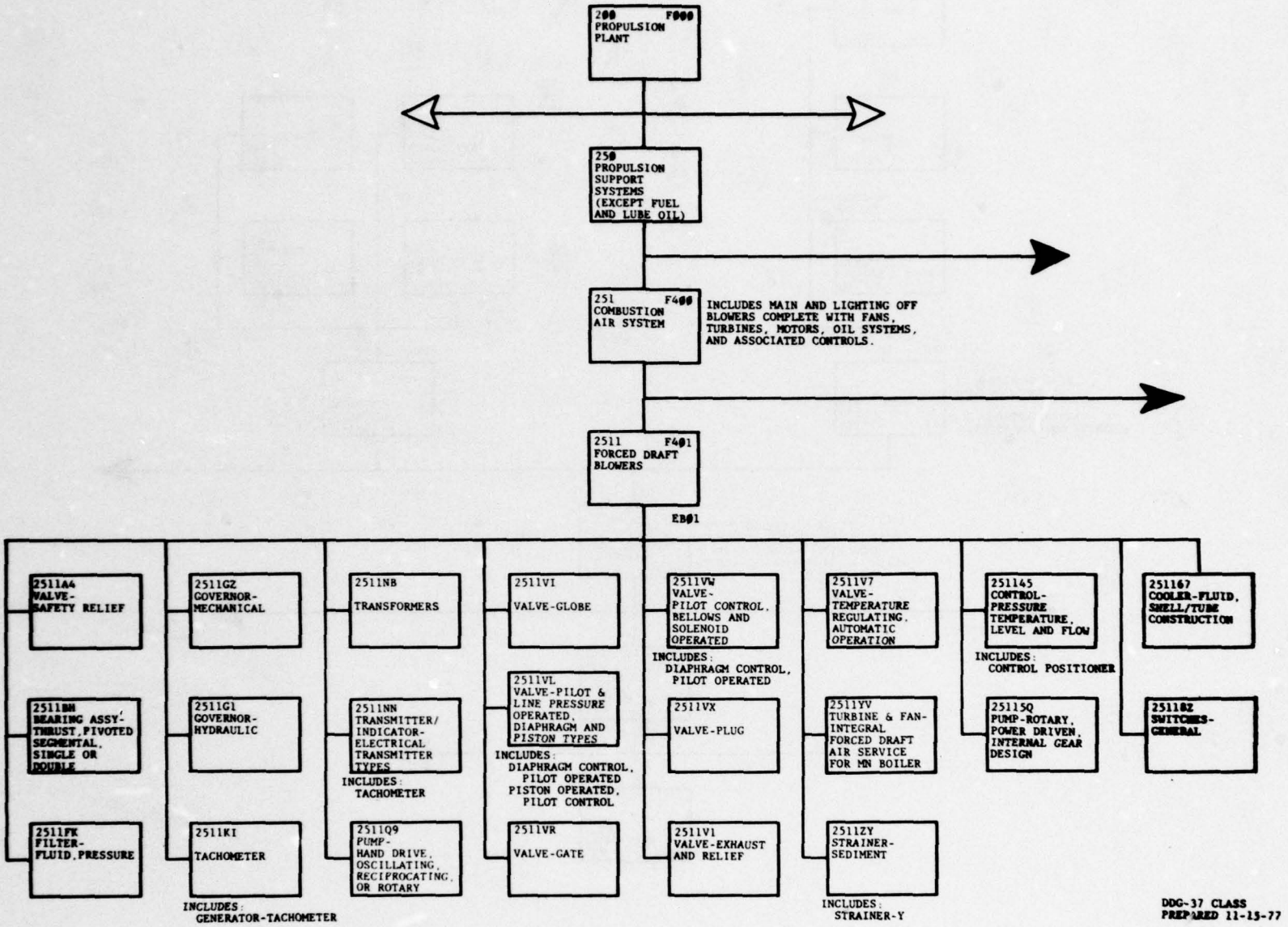
DDG-37 CLASS
PREPARED 8-3-77

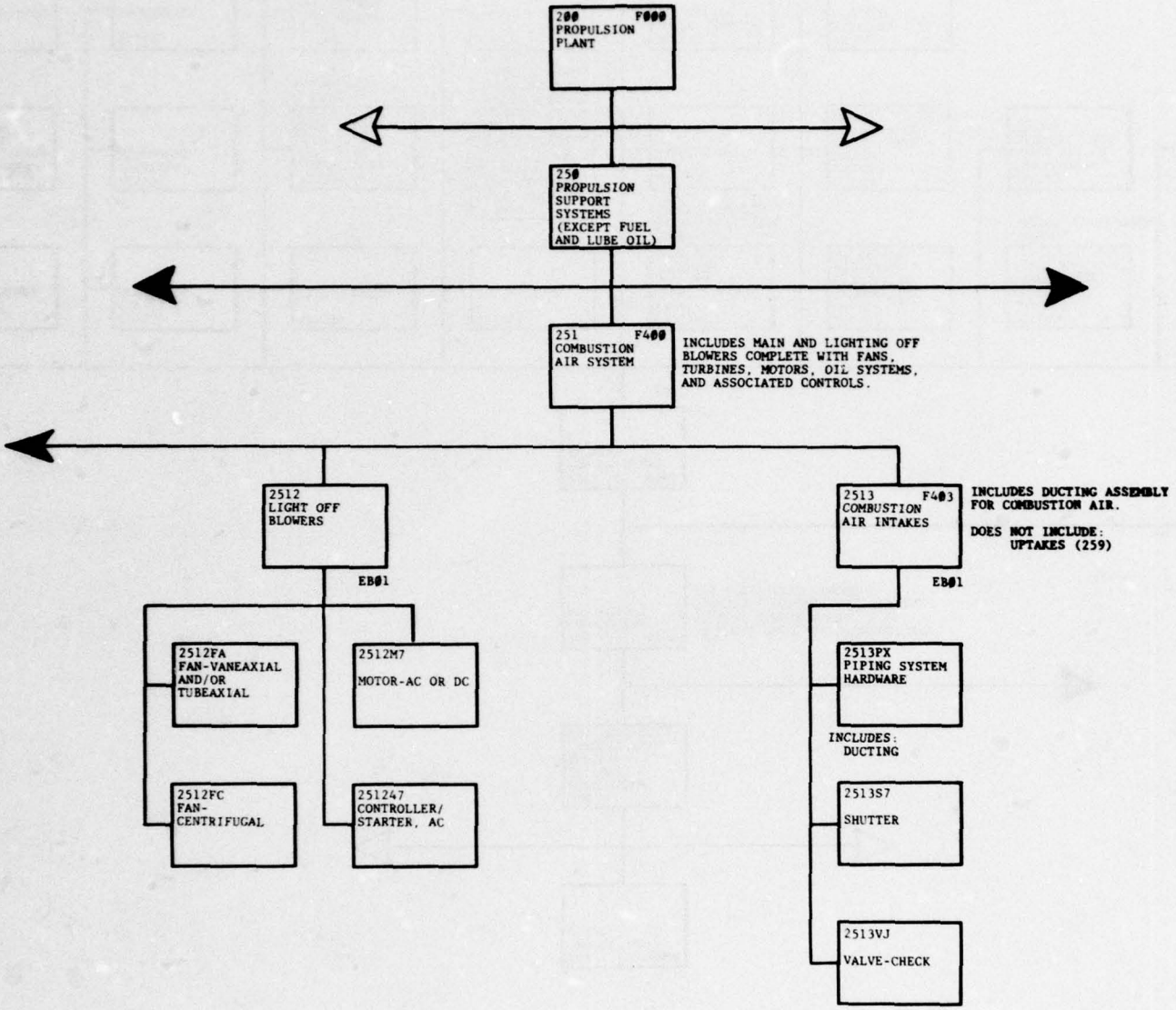


DDG-37 CLASS
PREPARED 12-1-77

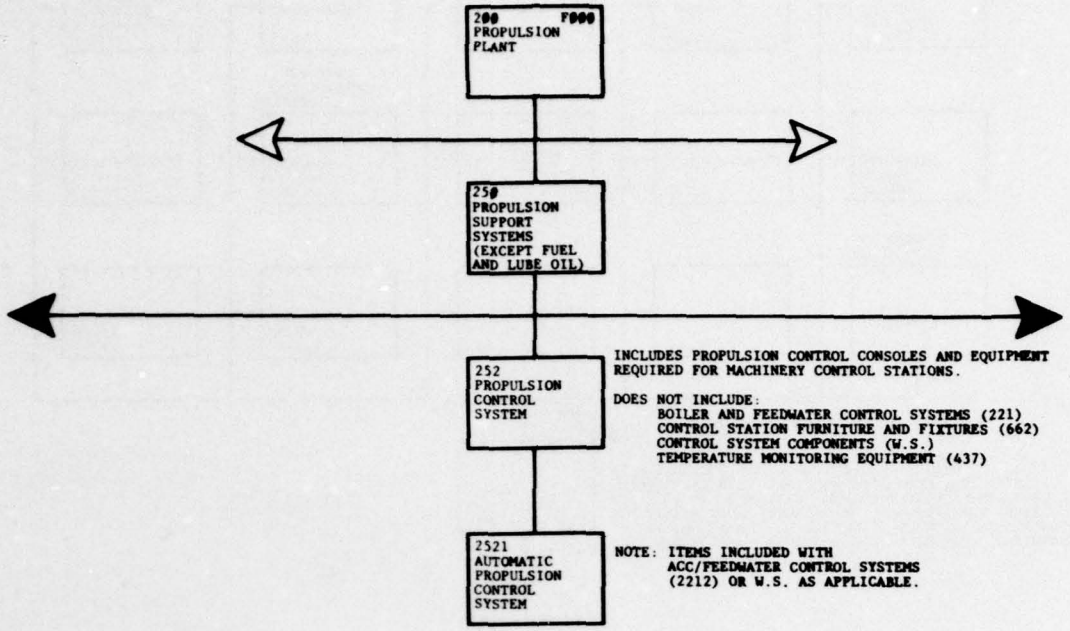


DDG-37 CLASS
PREPARED 8-3-77


200 F000
PROPULSION PLANT
250
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
251 F400
COMBUSTION AIR SYSTEM
INCLUDES MAIN AND LIGHTING OFF BLOWERS COMPLETE WITH FANS, TURBINES, MOTORS, OIL SYSTEMS, AND ASSOCIATED CONTROLS.
2511 F401
FORCED DRAFT BLOWERS
EB01
2511A4 VALVE-SAFETY RELIEF
2511BH BEARING ASSY-THRUST, PIVOTED SEGMENTAL, SINGLE OR DOUBLE
2511FK FILTER-FLUID, PRESSURE
2511GZ GOVERNOR-MECHANICAL
2511G1 GOVERNOR-HYDRAULIC
2511KI TACHOMETER
INCLUDES: GENERATOR-TACHOMETER
2511NB TRANSFORMERS
2511NN TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES: TACHOMETER
2511Q9 PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING, OR ROTARY
2511VI VALVE-GLOBE
2511VL VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
INCLUDES: DIAPHRAGM CONTROL, PILOT OPERATED PISTON OPERATED, PILOT CONTROL
2511VR VALVE-GATE
2511VW VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
INCLUDES: DIAPHRAGM CONTROL, PILOT OPERATED
2511VX VALVE-PLUG
2511V1 VALVE-EXHAUST AND RELIEF
2511V7 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
2511YV TURBINE & FAN-INTEGRAL FORCED DRAFT AIR SERVICE FOR MN BOILER
2511ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-Y
251145 CONTROL-PRESSURE TEMPERATURE, LEVEL AND FLOW
INCLUDES: CONTROL POSITIONER
25115Q PUMP-ROTARY, POWER DRIVEN, INTERNAL GEAR DESIGN
251167 COOLER-FLUID, SHELL/TUBE CONSTRUCTION
25118Z SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77



DDG-37 CLASS
PREPARED 8-3-77

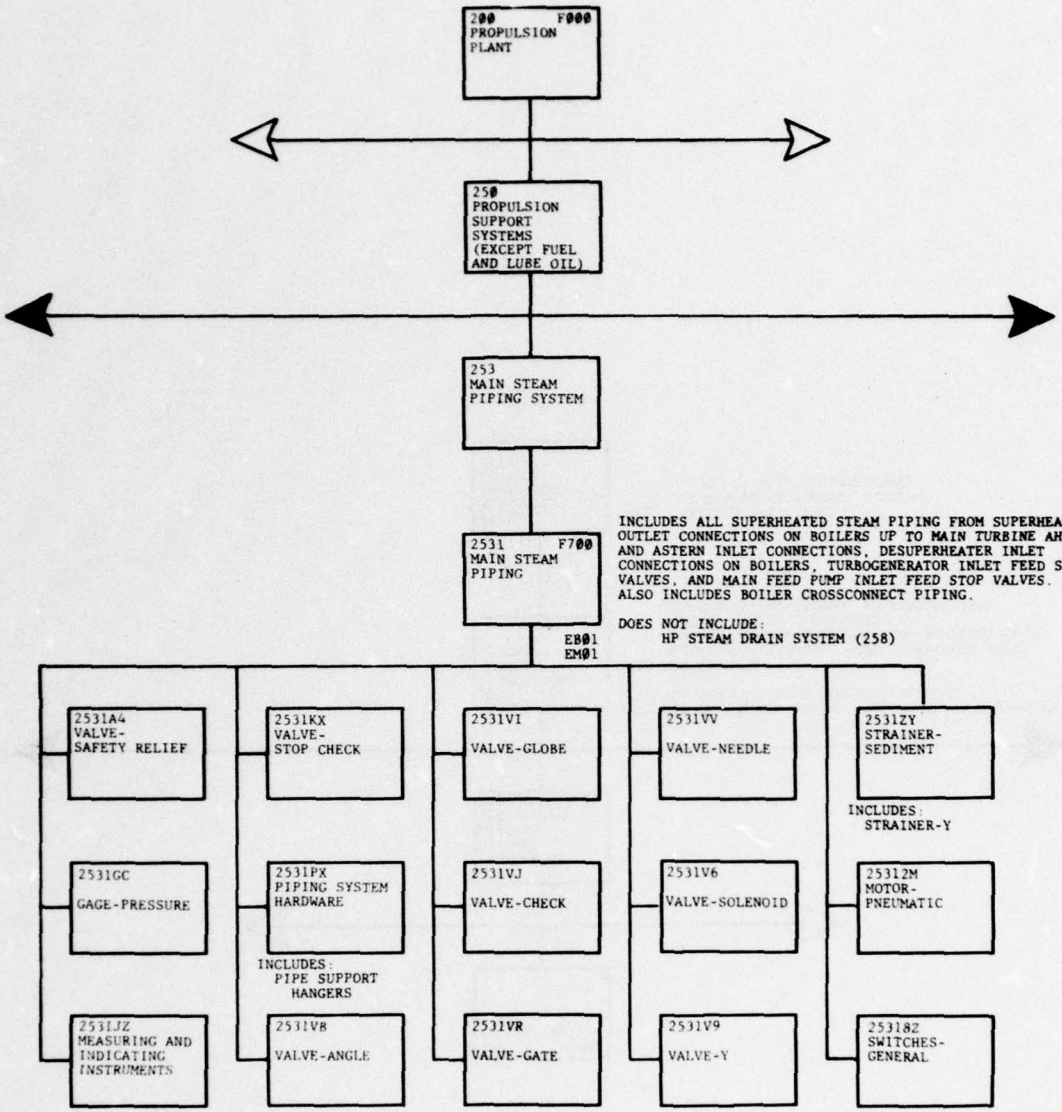


INCLUDES PROPULSION CONTROL CONSOLES AND EQUIPMENT REQUIRED FOR MACHINERY CONTROL STATIONS.

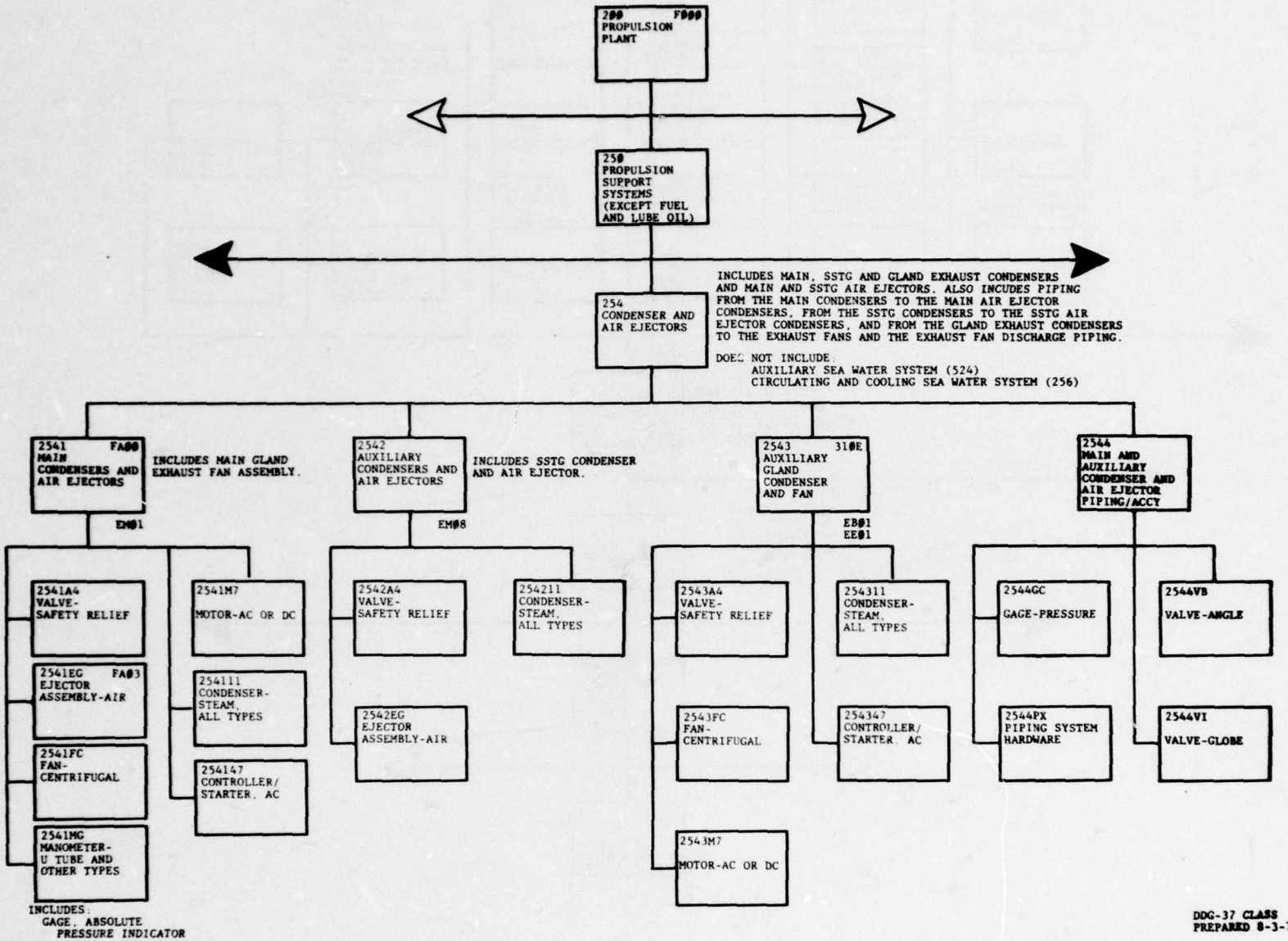
DOES NOT INCLUDE:
BOILER AND FEEDWATER CONTROL SYSTEMS (221)
CONTROL STATION FURNITURE AND FIXTURES (662)
CONTROL SYSTEM COMPONENTS (W.S.)
TEMPERATURE MONITORING EQUIPMENT (437)

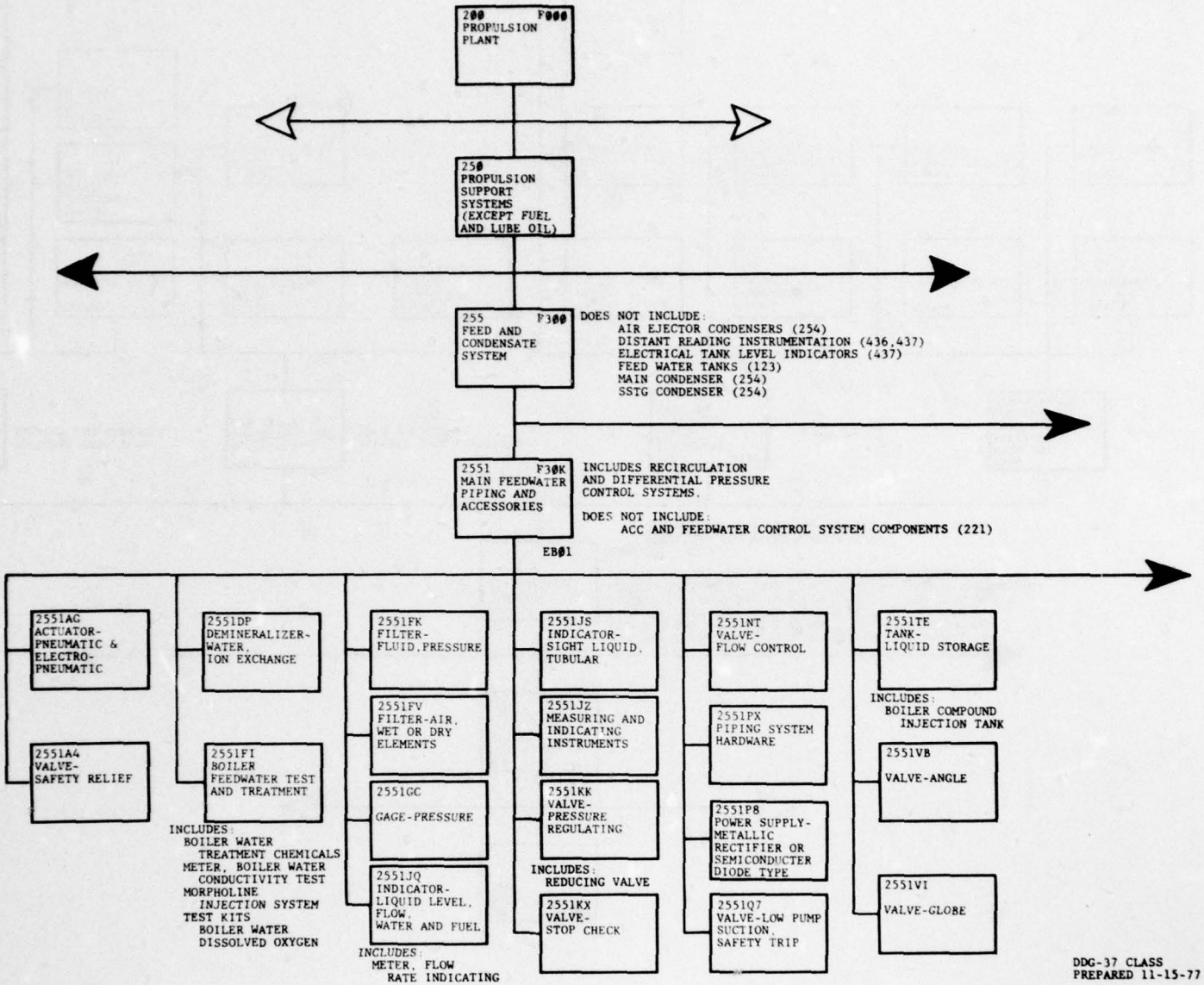
NOTE: ITEMS INCLUDED WITH ACC/FEEDWATER CONTROL SYSTEMS (2212) OR W.S. AS APPLICABLE.

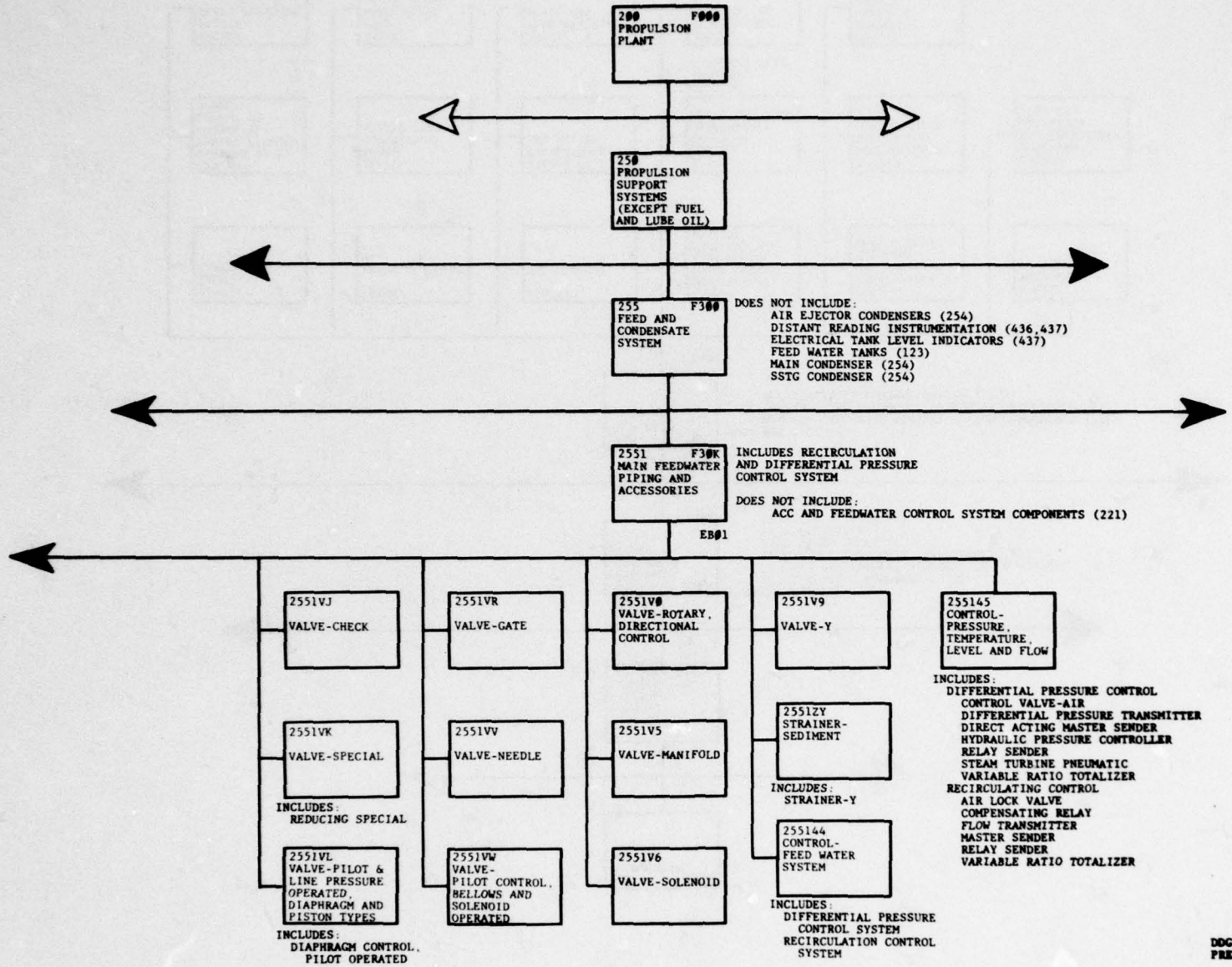
DDG-37 CLASS
PREPARED 8-19-77

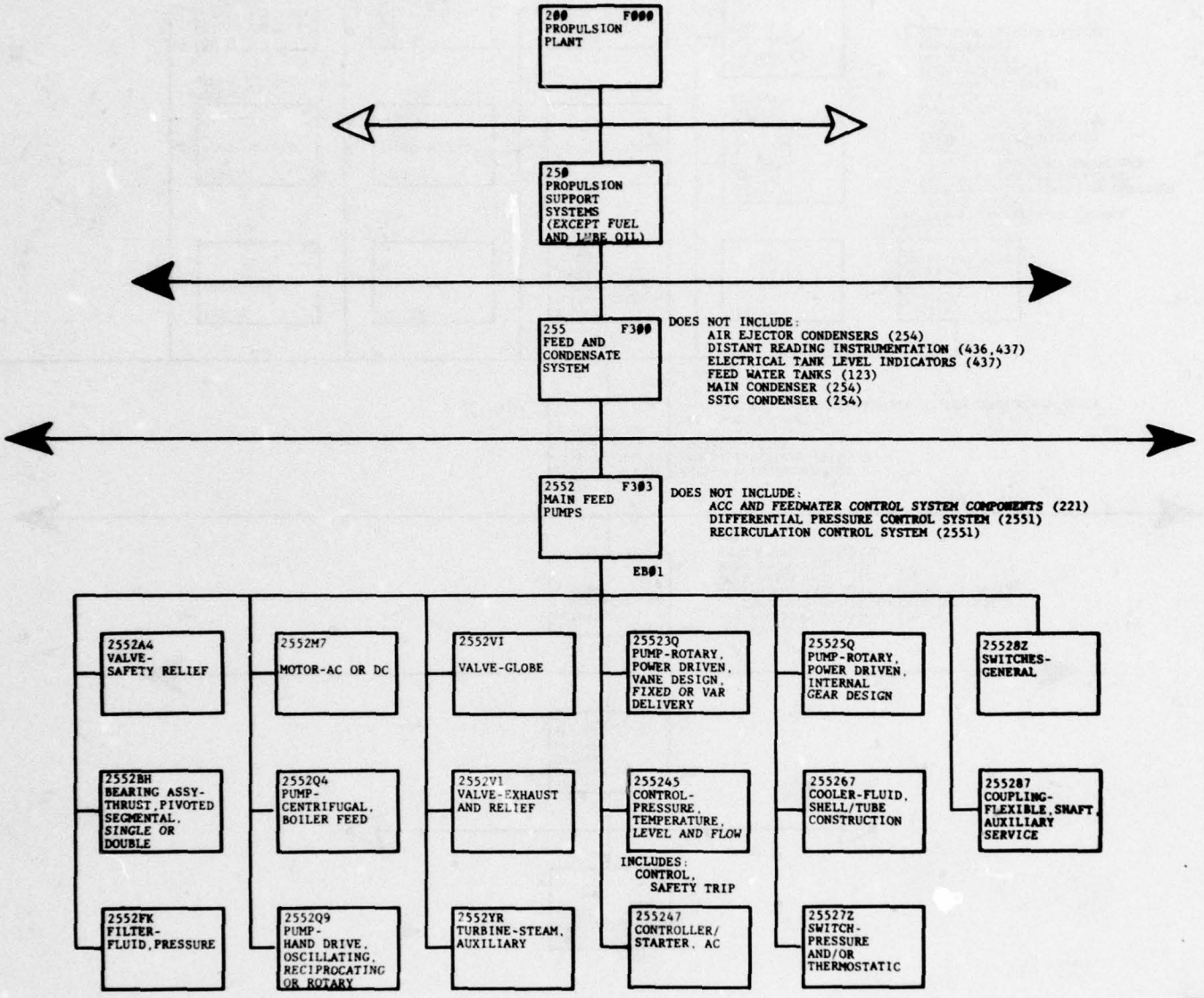


DDG-37 CLASS
PREPARED 8-3-77

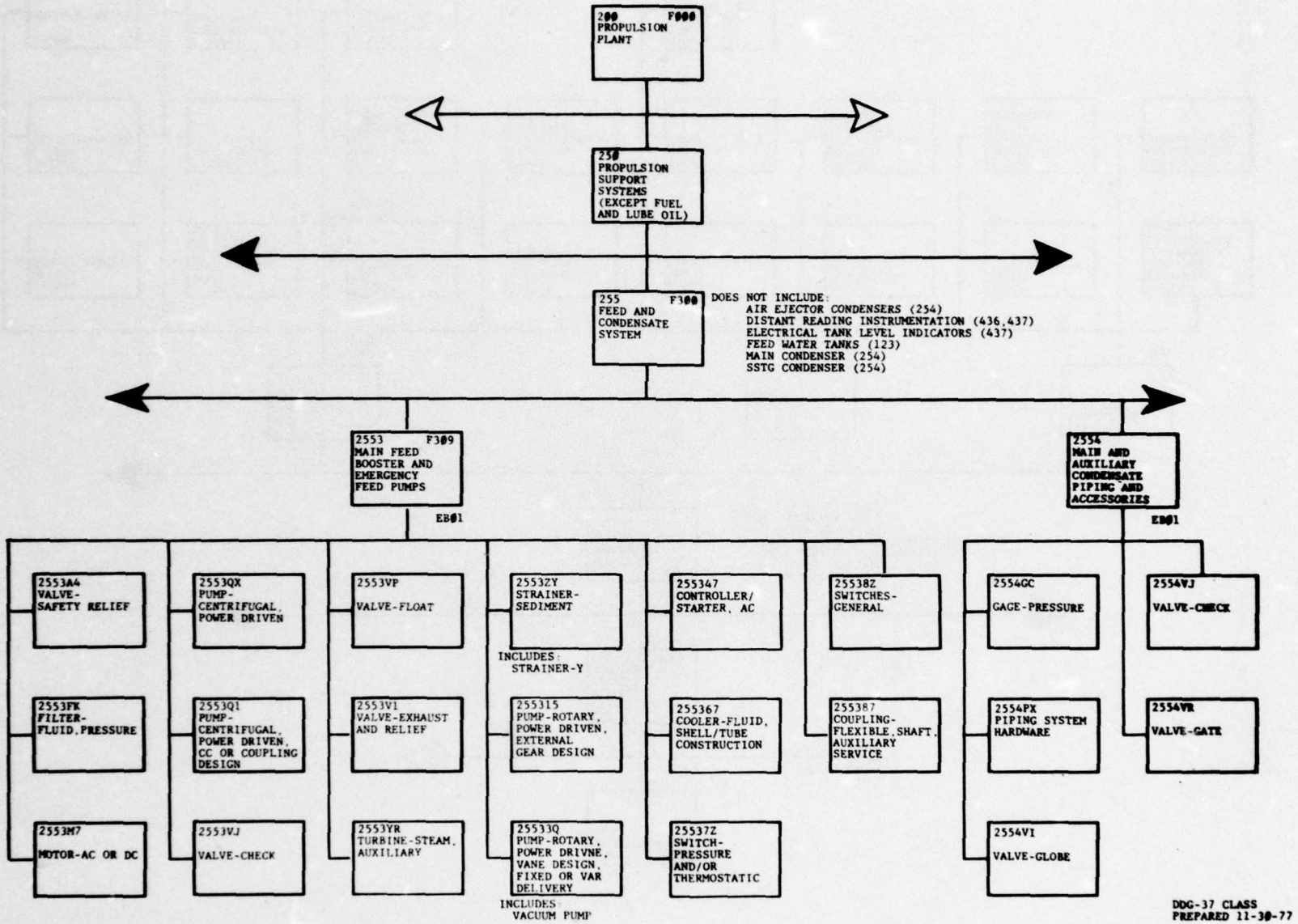

200 F000
PROPULSION PLANT
250
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
254
CONDENSER AND AIR EJECTORS
INCLUDES MAIN, SSTG AND GLAND EXHAUST CONDENSERS AND MAIN AND SSTG AIR EJECTORS. ALSO INCUDES PIPING FROM THE MAIN CONDENSERS TO THE MAIN AIR EJECTOR CONDENSERS, FROM THE SSTG CONDENSERS TO THE SSTG AIR EJECTOR CONDENSERS, AND FROM THE GLAND EXHAUST CONDENSERS TO THE EXHAUST FANS AND THE EXHAUST FAN DISCHARGE PIPING.
DOES NOT INCLUDE:
AUXILIARY SEA WATER SYSTEM (524)
CIRCULATING AND COOLING SEA WATER SYSTEM (256)
2541 FA00
MAIN CONDENSERS AND AIR EJECTORS
EM01
INCLUDES MAIN GLAND EXHAUST FAN ASSEMBLY.
2542
AUXILIARY CONDENSERS AND AIR EJECTORS
EM08
INCLUDES SSTG CONDENSER AND AIR EJECTOR.
2543 310E
AUXILIARY GLAND CONDENSER AND FAN
EB01
EE01
2544
MAIN AND AUXILIARY CONDENSER AND AIR EJECTOR PIPING/ACCY
2541A4
VALVE-SAFETY RELIEF
2541EG FA03
EJECTOR ASSEMBLY-AIR
2541FC
FAN-CENTRIFUGAL
2541MG
MANOMETER-U TUBE AND OTHER TYPES
INCLUDES:
GAGE, ABSOLUTE PRESSURE INDICATOR
2541M7
MOTOR-AC OR DC
254111
CONDENSER-STEAM, ALL TYPES
254147
CONTROLLER/STARTER, AC
2542A4
VALVE-SAFETY RELIEF
2542EG
EJECTOR ASSEMBLY-AIR
254211
CONDENSER-STEAM, ALL TYPES
2543A4
VALVE-SAFETY RELIEF
2543FC
FAN-CENTRIFUGAL
2543M7
MOTOR-AC OR DC
254311
CONDENSER-STEAM, ALL TYPES
254347
CONTROLLER/STARTER, AC
2544GC
GAGE-PRESSURE
2544PX
PIPING SYSTEM HARDWARE
2544VB
VALVE-ANGLE
2544VI
VALVE-GLOBE
DDG-37 CLASS
PREPARED 8-3-77

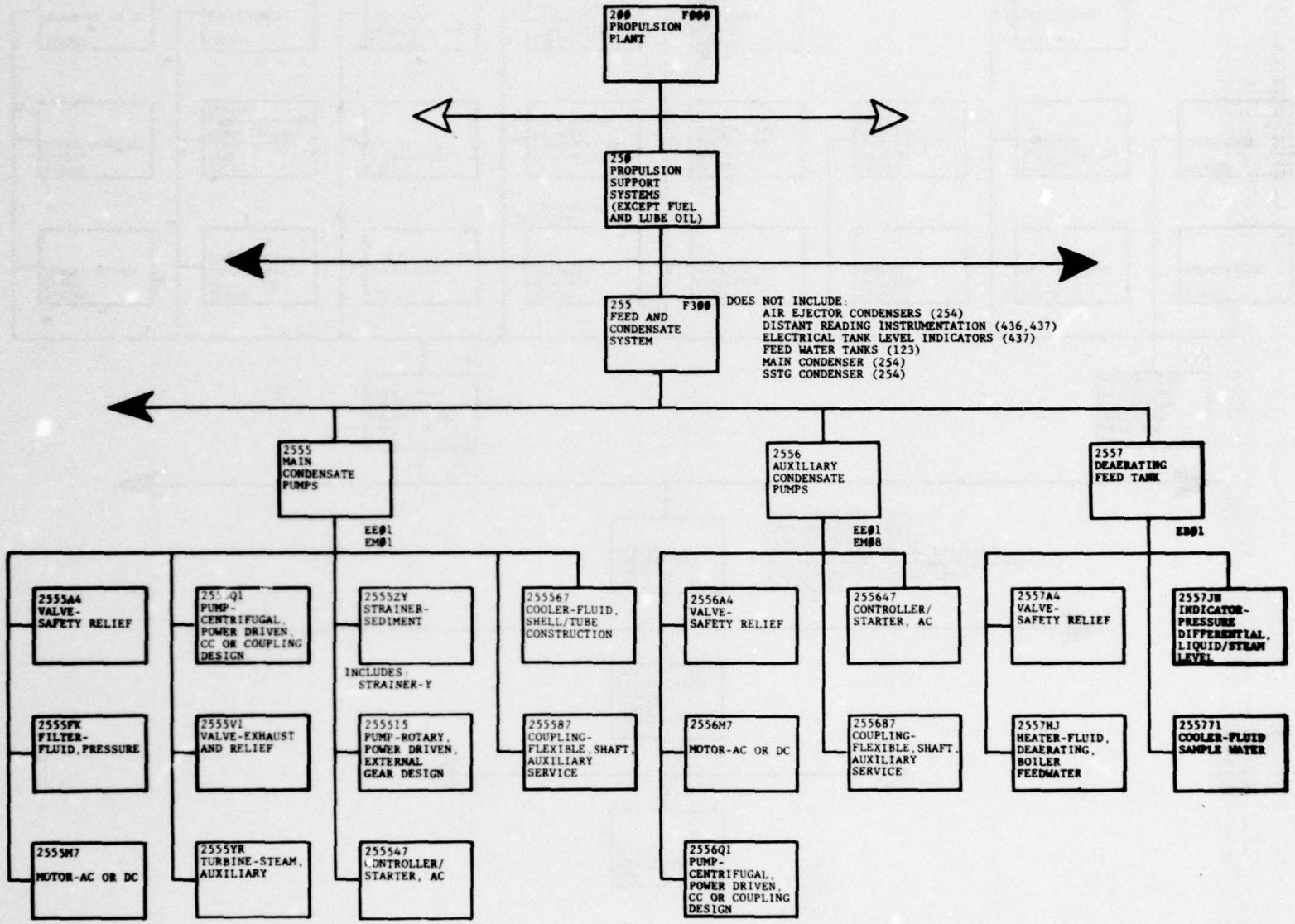

2ØØ F ØØØ
PROPULSION PLANT
25Ø
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
255 F3ØØ
FEED AND CONDENSATE SYSTEM
DOES NOT INCLUDE:
AIR EJECTOR CONDENSERS (254)
DISTANT READING INSTRUMENTATION (436,437)
ELECTRICAL TANK LEVEL INDICATORS (437)
FEED WATER TANKS (123)
MAIN CONDENSER (254)
SSTG CONDENSER (254)
2551 F3ØK
MAIN FEEDWATER PIPING AND ACCESSORIES
INCLUDES RECIRCULATION AND DIFFERENTIAL PRESSURE CONTROL SYSTEMS.
DOES NOT INCLUDE:
ACC AND FEEDWATER CONTROL SYSTEM COMPONENTS (221)
EBØ1
2551AG ACTUATOR-PNEUMATIC & ELECTRO-PNEUMATIC
2551A4 VALVE-SAFETY RELIEF
2551DP DEMINERALIZER-WATER, ION EXCHANGE
2551FI BOILER FEEDWATER TEST AND TREATMENT
INCLUDES:
BOILER WATER TREATMENT CHEMICALS
METER, BOILER WATER CONDUCTIVITY TEST
MORPHOLINE
INJECTION SYSTEM TEST KITS
BOILER WATER DISSOLVED OXYGEN
2551FK FILTER-FLUID, PRESSURE
2551FV FILTER-AIR, WET OR DRY ELEMENTS
2551GC GAGE-PRESSURE
2551JQ INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
INCLUDES:
METER, FLOW RATE INDICATING
2551JS INDICATOR-SIGHT LIQUID, TUBULAR
2551JZ MEASURING AND INDICATING INSTRUMENTS
2551KK VALVE-PRESSURE REGULATING
INCLUDES:
REDUCING VALVE
2551KX VALVE-STOP CHECK
2551NT VALVE-FLOW CONTROL
2551PX PIPING SYSTEM HARDWARE
2551P8 POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTER DIODE TYPE
2551Q7 VALVE-LOW PUMP SUCTION, SAFETY TRIP
2551TE TANK-LIQUID STORAGE
INCLUDES:
BOILER COMPOUND INJECTION TANK
2551VB VALVE-ANGLE
2551VI VALVE-GLOBE
DDG-37 CLASS
PREPARED 11-15-77


200 F000
PROPULSION PLANT
250
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
255 F300
FEED AND CONDENSATE SYSTEM
DOES NOT INCLUDE:
AIR EJECTOR CONDENSERS (254)
DISTANT READING INSTRUMENTATION (436,437)
ELECTRICAL TANK LEVEL INDICATORS (437)
FEED WATER TANKS (123)
MAIN CONDENSER (254)
SSTG CONDENSER (254)
2551 F30K
MAIN FEEDWATER PIPING AND ACCESSORIES
INCLUDES RECIRCULATION AND DIFFERENTIAL PRESSURE CONTROL SYSTEM
DOES NOT INCLUDE:
ACC AND FEEDWATER CONTROL SYSTEM COMPONENTS (221)
EB01
2551VJ
VALVE-CHECK
2551VR
VALVE-GATE
2551V0
VALVE-ROTARY, DIRECTIONAL CONTROL
2551V9
VALVE-Y
255145
CONTROL-PRESSURE, TEMPERATURE, LEVEL AND FLOW
INCLUDES:
DIFFERENTIAL PRESSURE CONTROL
CONTROL VALVE-AIR
DIFFERENTIAL PRESSURE TRANSMITTER
DIRECT ACTING MASTER SENDER
HYDRAULIC PRESSURE CONTROLLER
RELAY SENDER
STEAM TURBINE PNEUMATIC
VARIABLE RATIO TOTALIZER
RECIRCULATING CONTROL
AIR LOCK VALVE
COMPENSATING RELAY
FLOW TRANSMITTER
MASTER SENDER
RELAY SENDER
VARIABLE RATIO TOTALIZER
2551VK
VALVE-SPECIAL
INCLUDES:
REDUCING SPECIAL
2551VV
VALVE-NEEDLE
2551V5
VALVE-MANIFOLD
2551ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER-Y
2551VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
INCLUDES:
DIAPHRAGM CONTROL, PILOT OPERATED
2551VW
VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
2551V6
VALVE-SOLENOID
255144
CONTROL-FEED WATER SYSTEM
INCLUDES:
DIFFERENTIAL PRESSURE CONTROL SYSTEM
RECIRCULATION CONTROL SYSTEM
DDG-37 CLASS
PREPARED 8-3-77

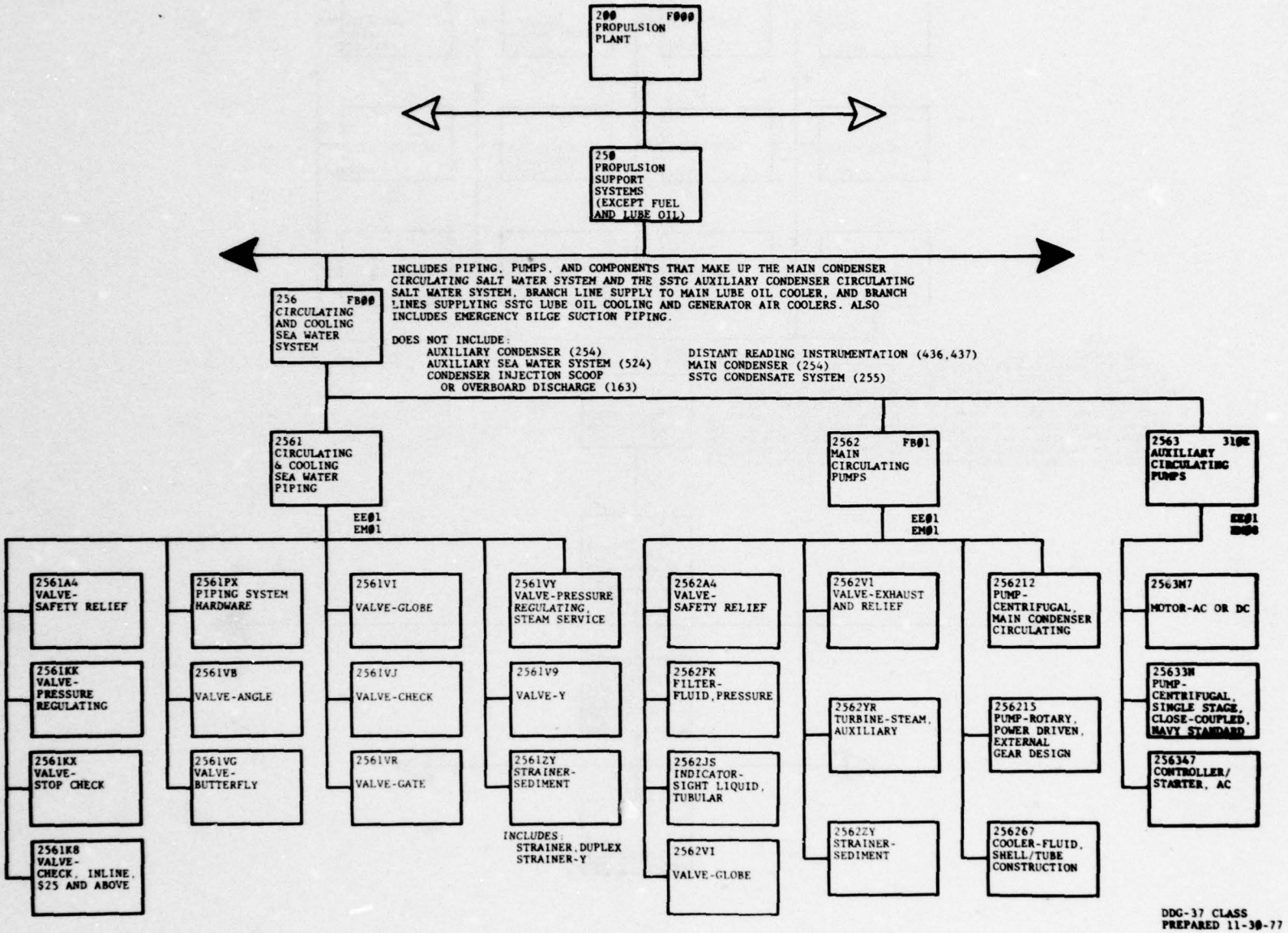


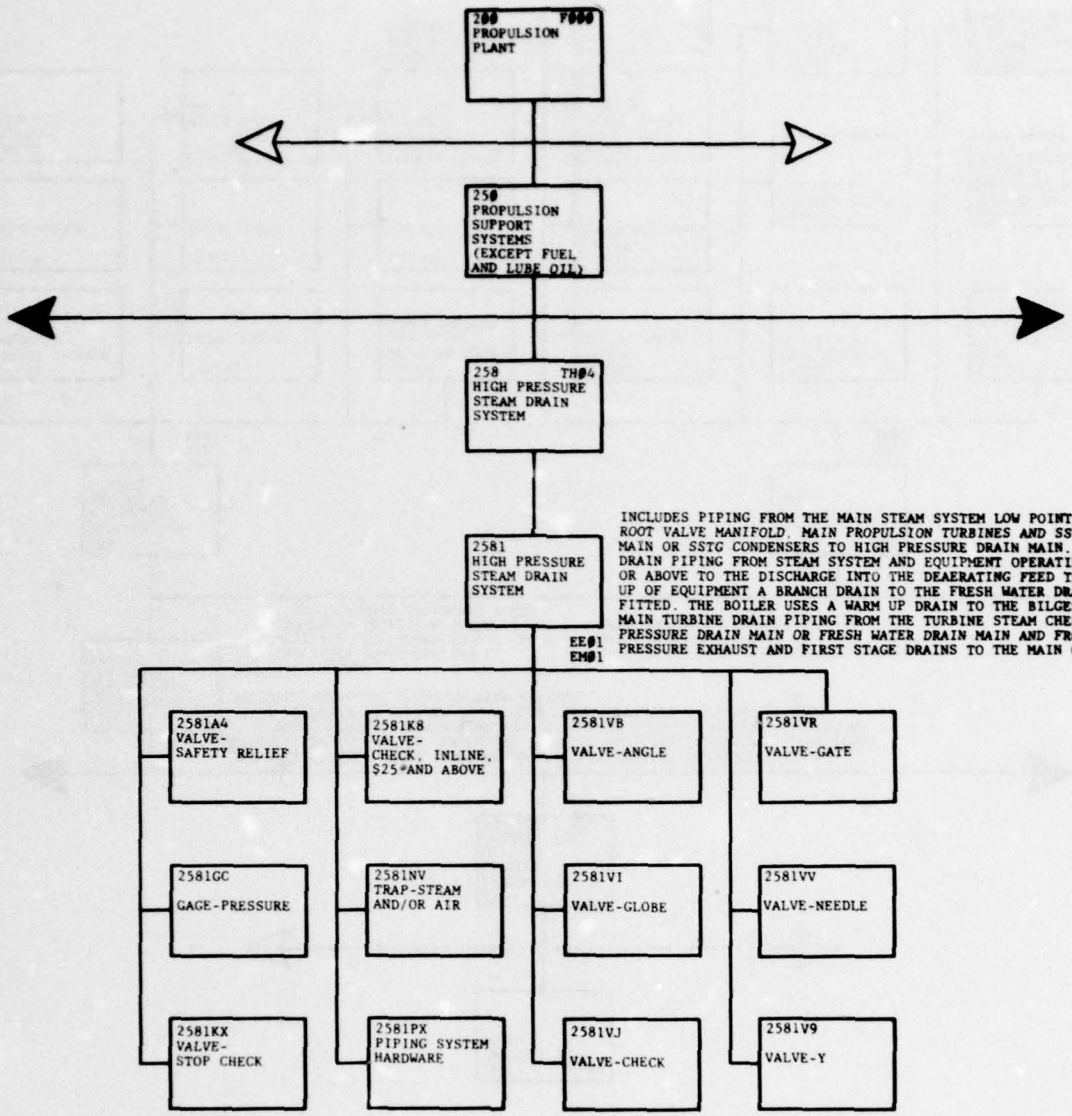
DDG-37 CLASS
PREPARED 8-3-77


200 F000
PROPULSION PLANT
250
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
255 F300
FEED AND CONDENSATE SYSTEM
DOES NOT INCLUDE:
AIR EJECTOR CONDENSERS (254)
DISTANT READING INSTRUMENTATION (436,437)
ELECTRICAL TANK LEVEL INDICATORS (437)
FEED WATER TANKS (123)
MAIN CONDENSER (254)
SSTG CONDENSER (254)
2553 F309
MAIN FEED BOOSTER AND EMERGENCY FEED PUMPS
EB01
2554
MAIN AND AUXILIARY CONDENSATE PIPING AND ACCESSORIES
ED01
2553A4
VALVE-SAFETY RELIEF
2553QX
PUMP-CENTRIFUGAL, POWER DRIVEN
2553VP
VALVE-FLOAT
2553ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER-Y
255347
CONTROLLER/STARTER, AC
25538Z
SWITCHES-GENERAL
2554GC
GAGE-PRESSURE
2554VJ
VALVE-CHECK
2553FK
FILTER-FLUID, PRESSURE
2553Q1
PUMP-CENTRIFUGAL, POWER DRIVEN, CC OR COUPLING DESIGN
2553V1
VALVE-EXHAUST AND RELIEF
255315
PUMP-ROTARY, POWER DRIVEN, EXTERNAL GEAR DESIGN
255367
COOLER-FLUID, SHELL/TUBE CONSTRUCTION
255387
COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
2554PX
PIPING SYSTEM HARDWARE
2554VR
VALVE-GATE
2553M7
MOTOR-AC OR DC
2553VJ
VALVE-CHECK
2553YR
TURBINE-STEAM, AUXILIARY
25533Q
PUMP-ROTARY, POWER DRIVNE, VANE DESIGN, FIXED OR VAR DELIVERY
INCLUDES:
VACUUM PUMP
25537Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
2554VI
VALVE-GLOBE
DDG-37 CLASS
PREPARED 11-30-77



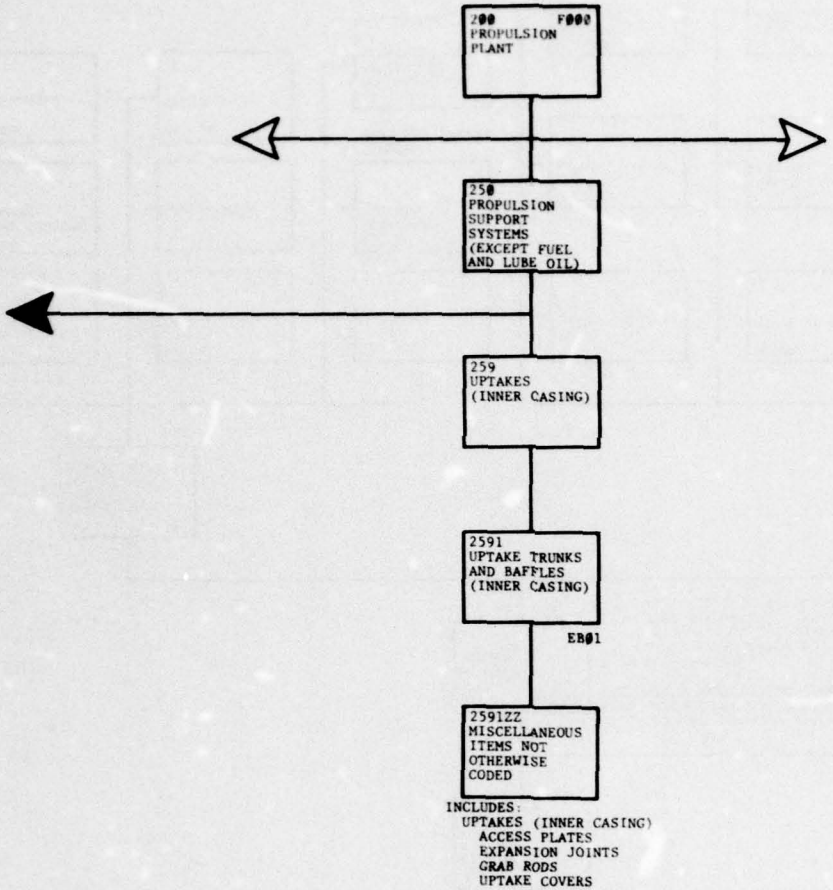
DDG-37 CLASS
PREPARED 11-30-77

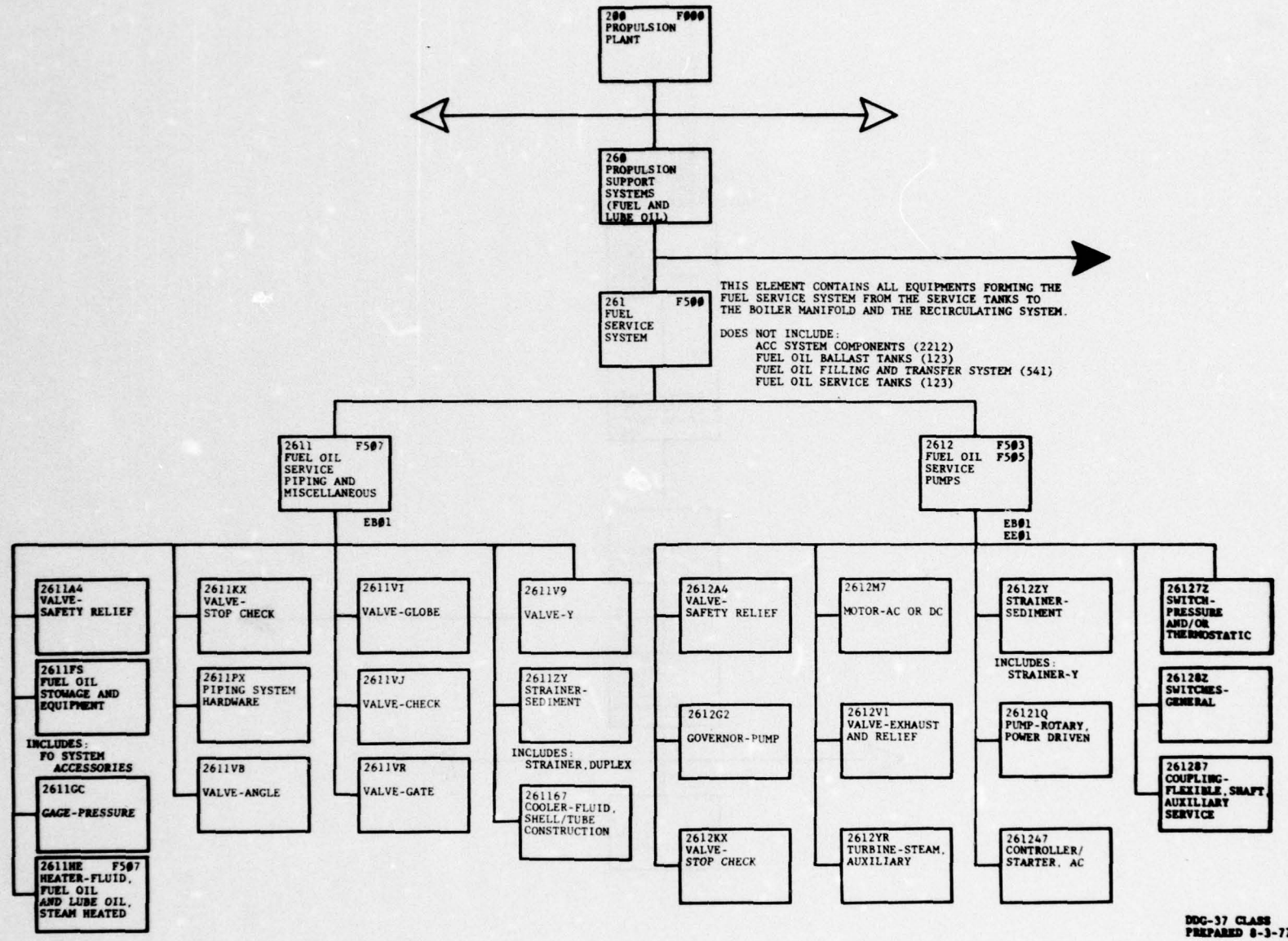

200 F000
PROPULSION PLANT
250
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
INCLUDES PIPING, PUMPS, AND COMPONENTS THAT MAKE UP THE MAIN CONDENSER CIRCULATING SALT WATER SYSTEM AND THE SSTG AUXILIARY CONDENSER CIRCULATING SALT WATER SYSTEM, BRANCH LINE SUPPLY TO MAIN LUBE OIL COOLER, AND BRANCH LINES SUPPLYING SSTG LUBE OIL COOLING AND GENERATOR AIR COOLERS. ALSO INCLUDES EMERGENCY BILGE SUCTION PIPING.
DOES NOT INCLUDE:
AUXILIARY CONDENSER (254)
AUXILIARY SEA WATER SYSTEM (524)
CONDENSER INJECTION SCOOP OR OVERBOARD DISCHARGE (163)
DISTANT READING INSTRUMENTATION (436,437)
MAIN CONDENSER (254)
SSTG CONDENSATE SYSTEM (255)
256 FB00
CIRCULATING AND COOLING SEA WATER SYSTEM
2561
CIRCULATING & COOLING SEA WATER PIPING
EE01
EM01
2561A4
VALVE-SAFETY RELIEF
2561KK
VALVE-PRESSURE REGULATING
2561KX
VALVE-STOP CHECK
2561K8
VALVE-CHECK, INLINE, $25 AND ABOVE
2561PX
PIPING SYSTEM HARDWARE
2561VB
VALVE-ANGLE
2561VG
VALVE-BUTTERFLY
2561VI
VALVE-GLOBE
2561VJ
VALVE-CHECK
2561VR
VALVE-GATE
2561VY
VALVE-PRESSURE REGULATING, STEAM SERVICE
2561V9
VALVE-Y
2561ZY
STRAINER-SEDIMENT
INCLUDES: STRAINER, DUPLEX STRAINER-Y
2562 FB01
MAIN CIRCULATING PUMPS
EE01
EM01
2562A4
VALVE-SAFETY RELIEF
2562FK
FILTER-FLUID, PRESSURE
2562JS
INDICATOR-SIGHT LIQUID, TUBULAR
2562VI
VALVE-GLOBE
2562V1
VALVE-EXHAUST AND RELIEF
2562YR
TURBINE-STEAM, AUXILIARY
2562ZY
STRAINER-SEDIMENT
256212
PUMP-CENTRIFUGAL, MAIN CONDENSER CIRCULATING
256215
PUMP-ROTARY, POWER DRIVEN, EXTERNAL GEAR DESIGN
256267
COOLER-FLUID, SHELL/TUBE CONSTRUCTION
2563 310Z
AUXILIARY CIRCULATING PUMPS
EE01
EM00
2563M7
MOTOR-AC OR DC
25633N
PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE-COUPLED, NAVY STANDARD
256347
CONTROLLER/STARTER, AC
DDG-37 CLASS
PREPARED 11-30-77

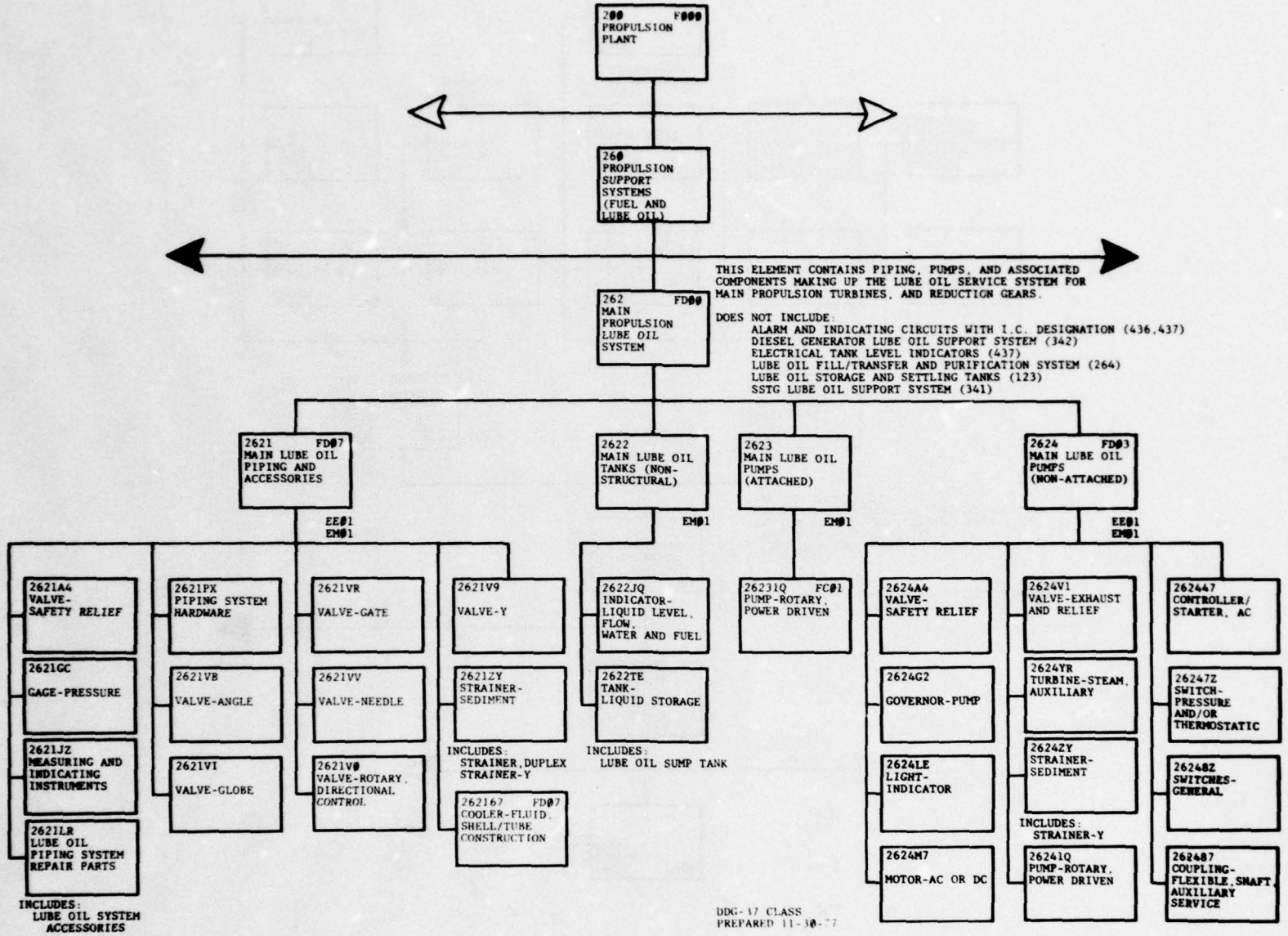


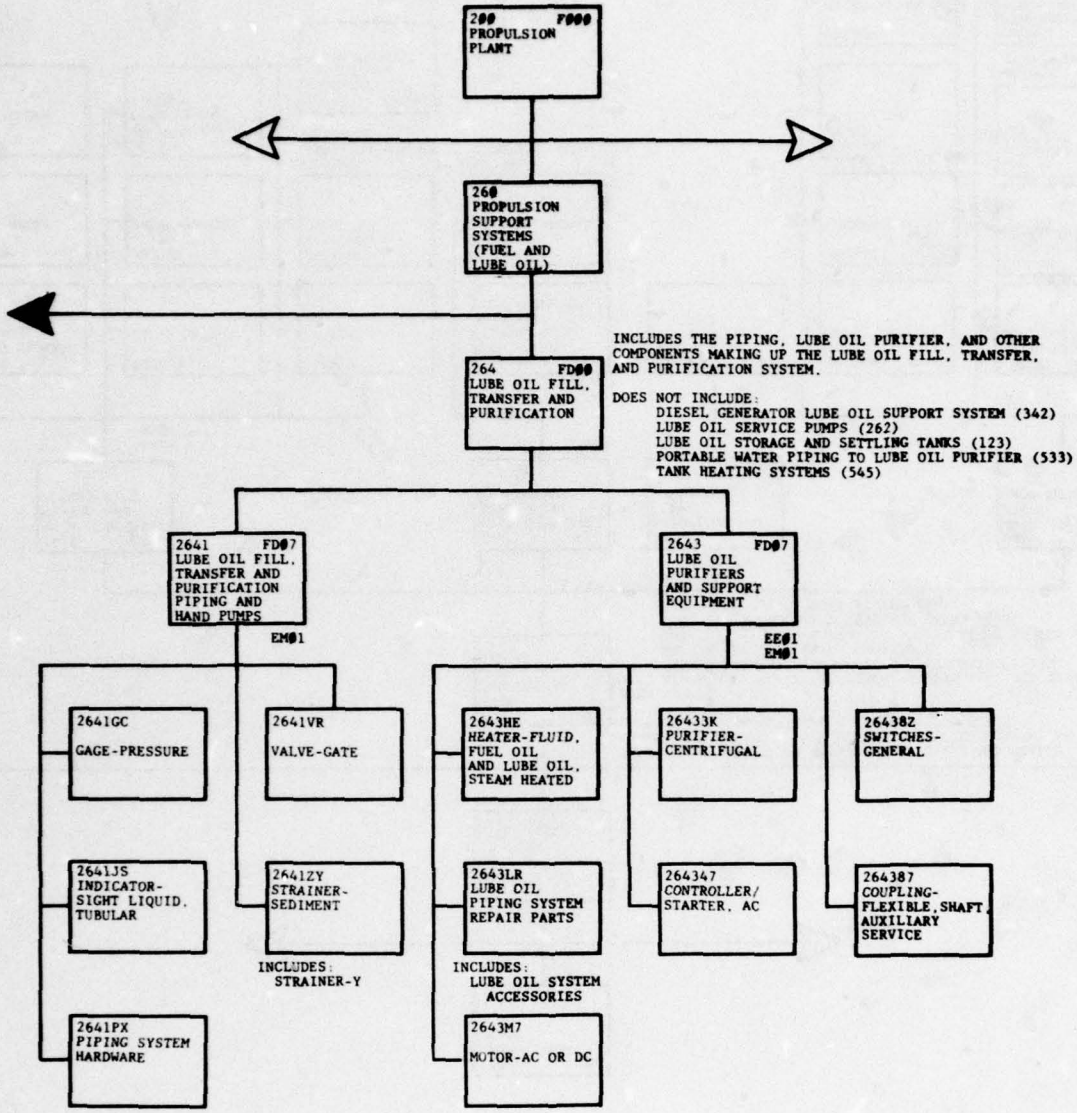
INCLUDES PIPING FROM THE MAIN STEAM SYSTEM LOW POINTS, MAIN STEAM ROOT VALVE MANIFOLD, MAIN PROPULSION TURBINES AND SSTG SETS TO MAIN OR SSTG CONDENSERS TO HIGH PRESSURE DRAIN MAIN. ALSO INCLUDES DRAIN PIPING FROM STEAM SYSTEM AND EQUIPMENT OPERATING AT 15Ø PSIG OR ABOVE TO THE DISCHARGE INTO THE DEAERATING FEED TANK. FOR WARM UP OF EQUIPMENT A BRANCH DRAIN TO THE FRESH WATER DRAIN MAIN IS FITTED. THE BOILER USES A WARM UP DRAIN TO 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.

DDG-37 CLASS
PREPARED 8-3-77

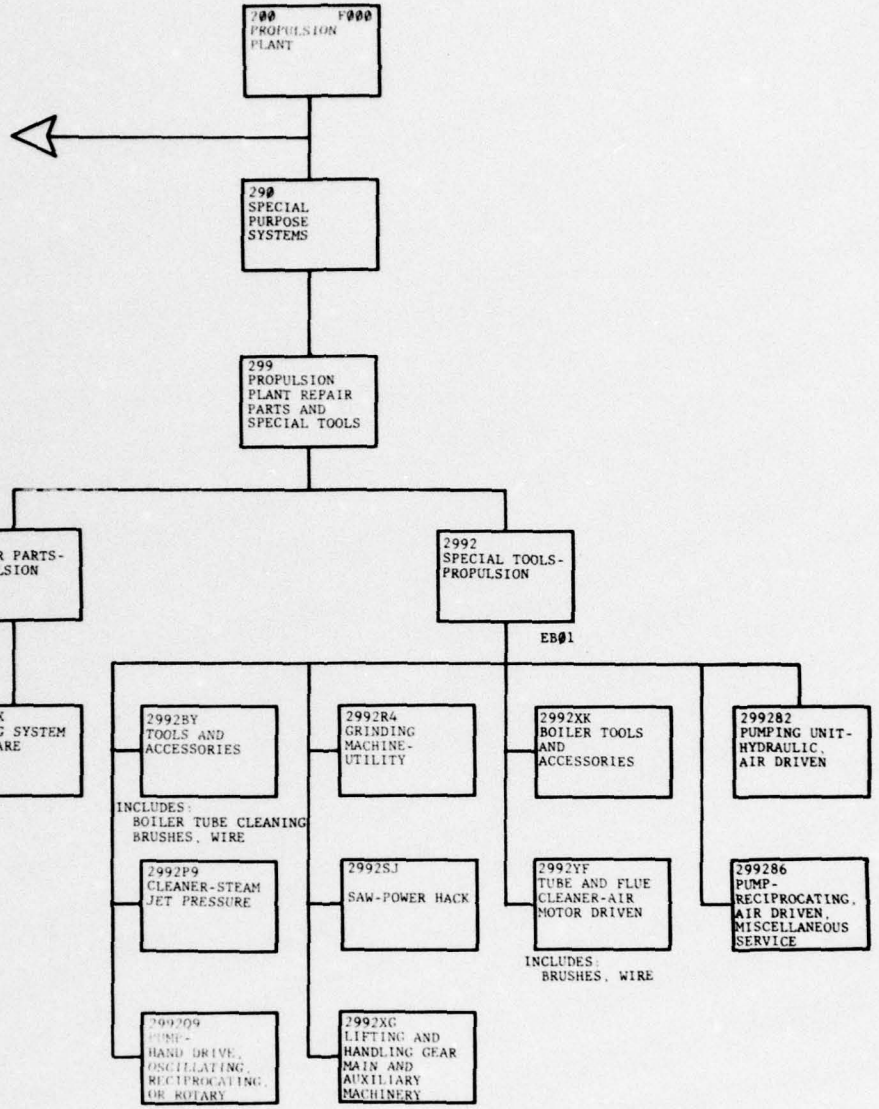

200 F000
PROPULSION PLANT
250
PROPULSION SUPPORT SYSTEMS (EXCEPT FUEL AND LUBE OIL)
259
UPTAKES (INNER CASING)
2591
UPTAKE TRUNKS AND BAFFLES (INNER CASING)
EB01
2591ZZ
MISCELLANEOUS ITEMS NOT OTHERWISE CODED
INCLUDES:
UPTAKES (INNER CASING)
ACCESS PLATES
EXPANSION JOINTS
GRAB RODS
UPTAKE COVERS


200 F000
PROPULSION PLANT
260
PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)
261 F500
FUEL SERVICE SYSTEM
THIS ELEMENT CONTAINS ALL EQUIPMENTS FORMING THE FUEL SERVICE SYSTEM FROM THE SERVICE TANKS TO THE BOILER MANIFOLD AND THE RECIRCULATING SYSTEM.
DOES NOT INCLUDE:
ACC SYSTEM COMPONENTS (2212)
FUEL OIL BALLAST TANKS (123)
FUEL OIL FILLING AND TRANSFER SYSTEM (541)
FUEL OIL SERVICE TANKS (123)
2611 F507
FUEL OIL SERVICE PIPING AND MISCELLANEOUS
EB01
2612 F503 F505
FUEL OIL SERVICE PUMPS
EB01
EE01
2611A4 VALVE-SAFETY RELIEF
2611FS FUEL OIL STOWAGE AND EQUIPMENT
INCLUDES: FO SYSTEM ACCESSORIES
2611GC GAGE-PRESSURE
2611HE F507 HEATER-FLUID, FUEL OIL AND LUBE OIL, STEAM HEATED
2611KX VALVE-STOP CHECK
2611PX PIPING SYSTEM HARDWARE
2611VB VALVE-ANGLE
2611VI VALVE-GLOBE
2611VJ VALVE-CHECK
2611VR VALVE-GATE
2611V9 VALVE-Y
2611ZY STRAINER-SEDIMENT
INCLUDES: STRAINER, DUPLEX
261167 COOLER-FLUID, SHELL/TUBE CONSTRUCTION
2612A4 VALVE-SAFETY RELIEF
2612G2 GOVERNOR-PUMP
2612KX VALVE-STOP CHECK
2612M7 MOTOR-AC OR DC
2612V1 VALVE-EXHAUST AND RELIEF
2612YR TURBINE-STEAM, AUXILIARY
2612ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-Y
26121Q PUMP-ROTARY, POWER DRIVEN
261247 CONTROLLER/STARTER, AC
26127Z SWITCH-PRESSURE AND/OR THERMOSTATIC
26128Z SWITCHES-GENERAL
261287 COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
DDG-37 CLASS
PREPARED 8-3-77


2 00 F000
PROPULSION PLANT
260
PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)
262 FD00
MAIN PROPULSION LUBE OIL SYSTEM
THIS ELEMENT CONTAINS PIPING, PUMPS, AND ASSOCIATED COMPONENTS MAKING UP THE LUBE OIL SERVICE SYSTEM FOR MAIN PROPULSION TURBINES, AND REDUCTION GEARS.
DOES NOT INCLUDE:
ALARM AND INDICATING CIRCUITS WITH I.C. DESIGNATION (436,437)
DIESEL GENERATOR LUBE OIL SUPPORT SYSTEM (342)
ELECTRICAL TANK LEVEL INDICATORS (437)
LUBE OIL FILL/TRANSFER AND PURIFICATION SYSTEM (264)
LUBE OIL STORAGE AND SETTLING TANKS (123)
SSTG LUBE OIL SUPPORT SYSTEM (341)
2621 FD07
MAIN LUBE OIL PIPING AND ACCESSORIES
EE01
EM01
2622
MAIN LUBE OIL TANKS (NON-STRUCTURAL)
EM01
2623
MAIN LUBE OIL PUMPS (ATTACHED)
EM01
2624 FD03
MAIN LUBE OIL PUMPS (NON-ATTACHED)
EE01
EM01
2621A4
VALVE-SAFETY RELIEF
2621GC
GAGE-PRESSURE
2621JZ
MEASURING AND INDICATING INSTRUMENTS
2621LR
LUBE OIL PIPING SYSTEM REPAIR PARTS
INCLUDES:
LUBE OIL SYSTEM ACCESSORIES
2621PX
PIPING SYSTEM HARDWARE
2621VB
VALVE-ANGLE
2621VI
VALVE-GLOBE
2621VR
VALVE-GATE
2621VV
VALVE-NEEDLE
2621V0
VALVE-ROTARY, DIRECTIONAL CONTROL
2621V9
VALVE-Y
2621ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER, DUPLEX STRAINER-Y
262167 FD07
COOLER-FLUID, SHELL/TUBE CONSTRUCTION
2622JQ
INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
2622TE
TANK-LIQUID STORAGE
INCLUDES:
LUBE OIL SUMP TANK
26231Q FC01
PUMP-ROTARY, POWER DRIVEN
2624A4
VALVE-SAFETY RELIEF
2624G2
GOVERNOR-PUMP
2624LE
LIGHT-INDICATOR
2624M7
MOTOR-AC OR DC
2624V1
VALVE-EXHAUST AND RELIEF
2624YR
TURBINE-STEAM, AUXILIARY
2624ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER-Y
26241Q
PUMP-ROTARY, POWER DRIVEN
262447
CONTROLLER/STARTER, AC
26247Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
26248Z
SWITCHES-GENERAL
262487
COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
DDG-37 CLASS
PREPARED 11-30-77

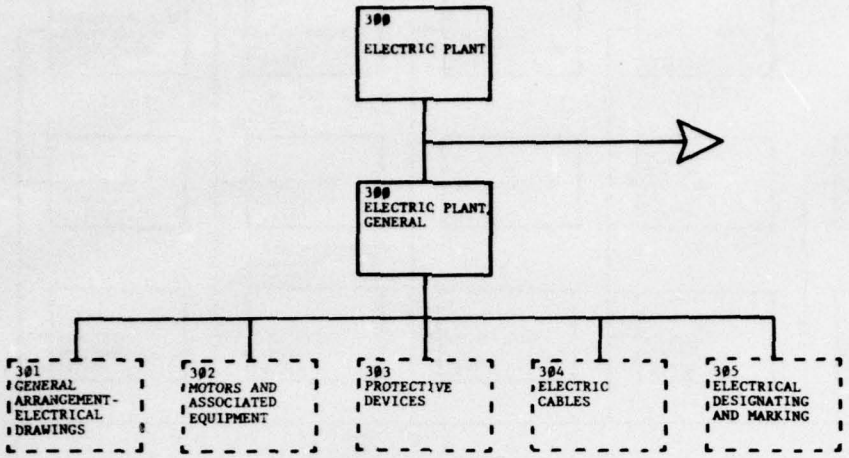


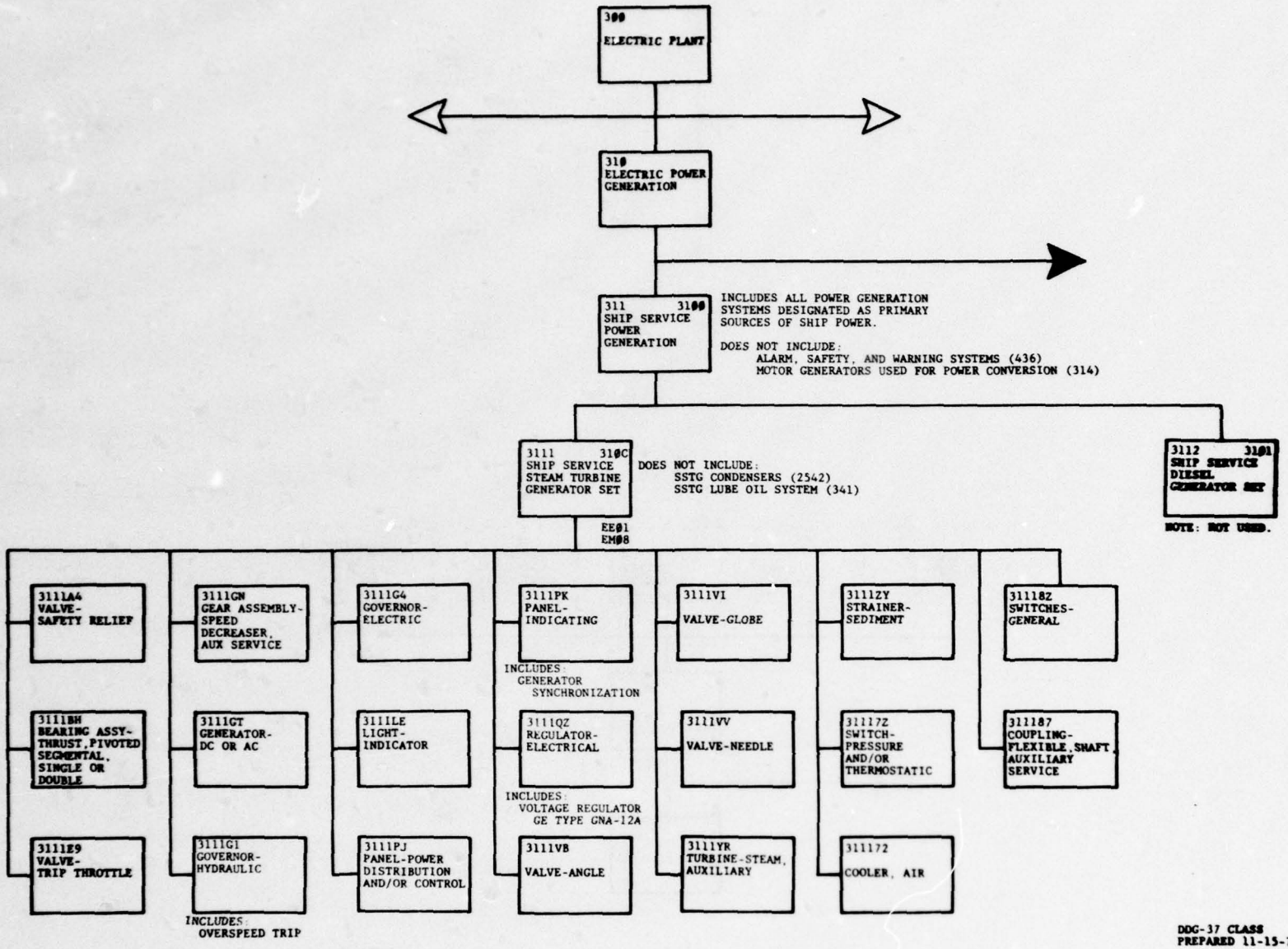
DDG-37 CLASS
PREPARED 8-3-77

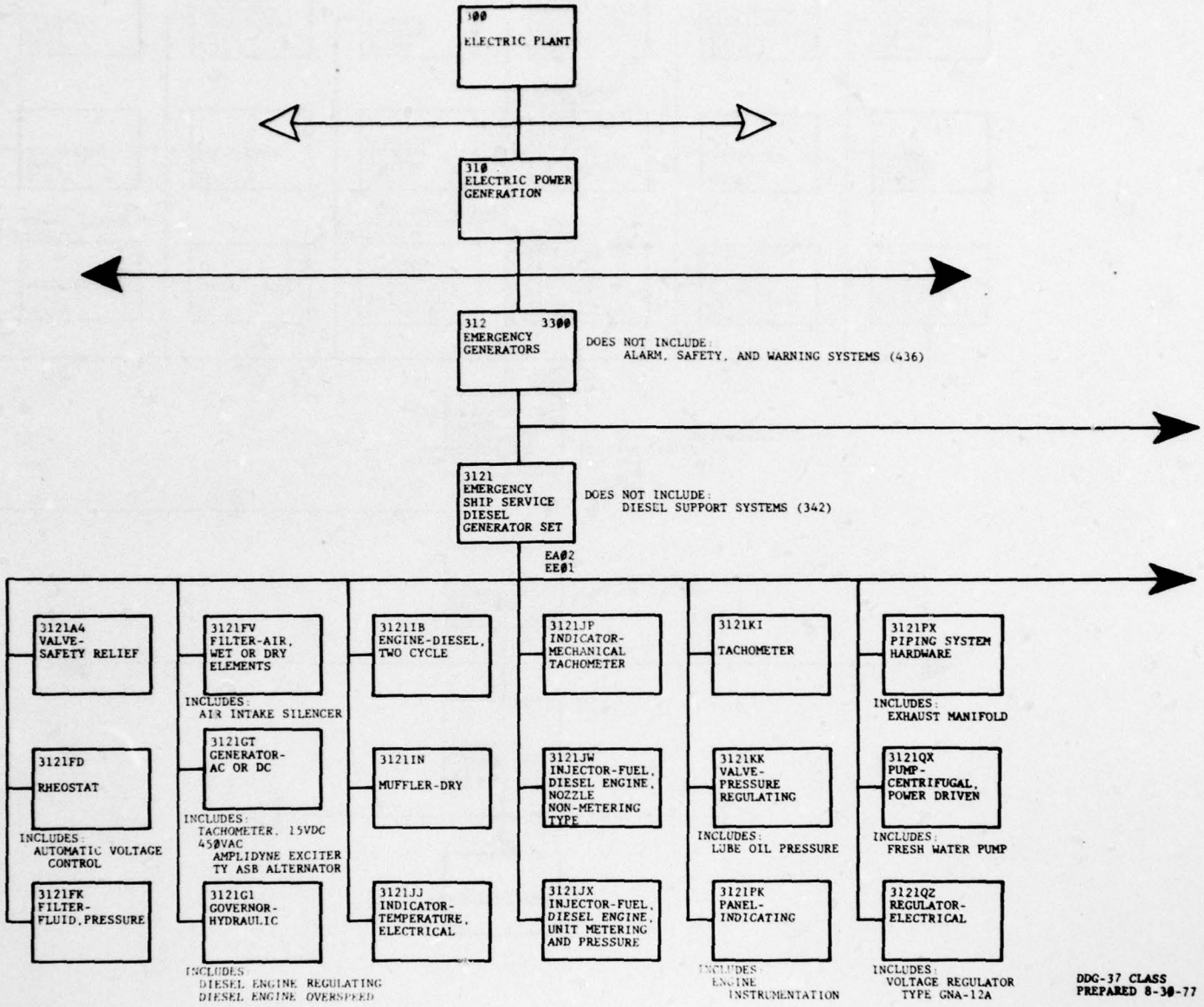


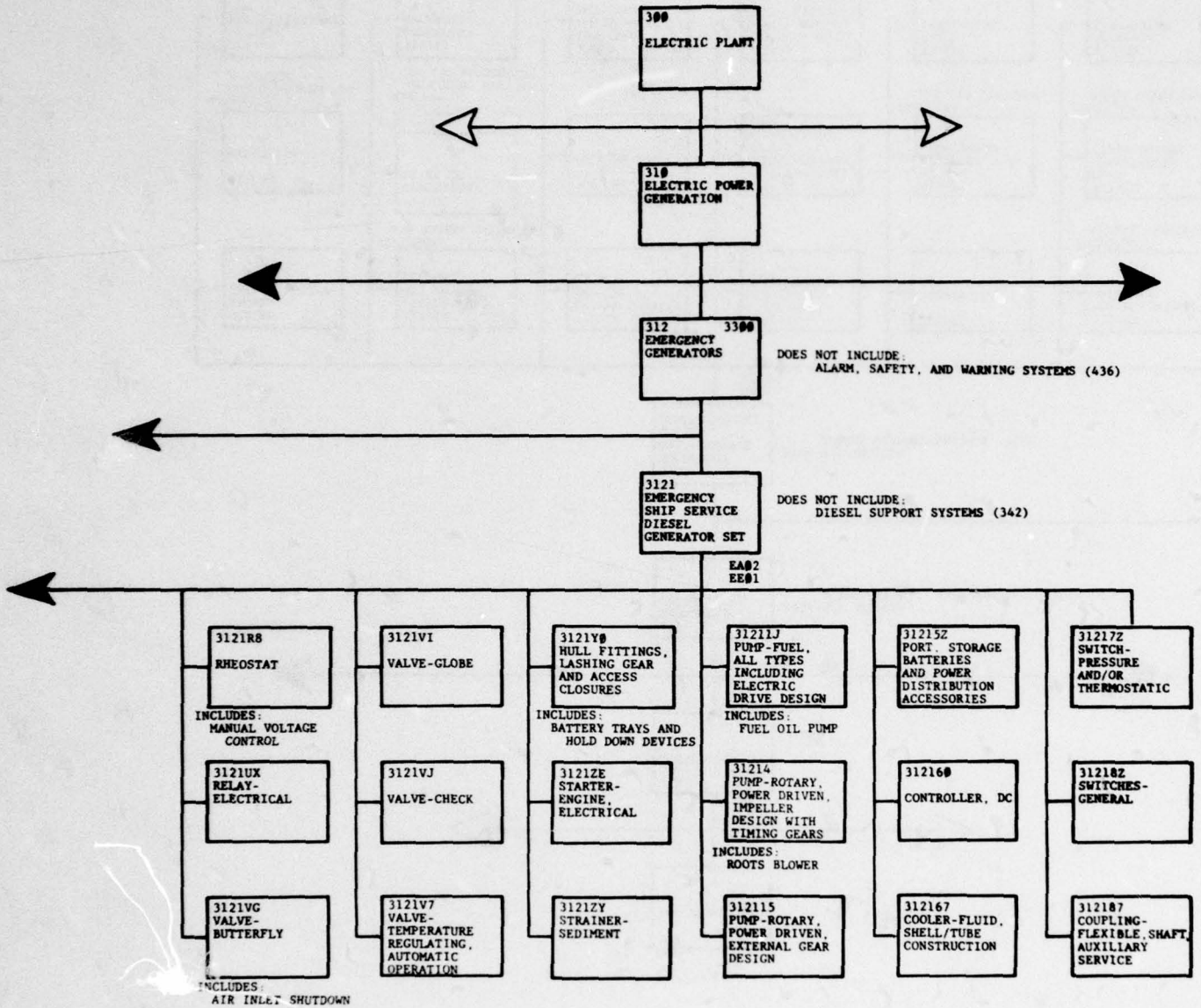
9960

DDG-37 CLASS
PREPARED 8-3-77

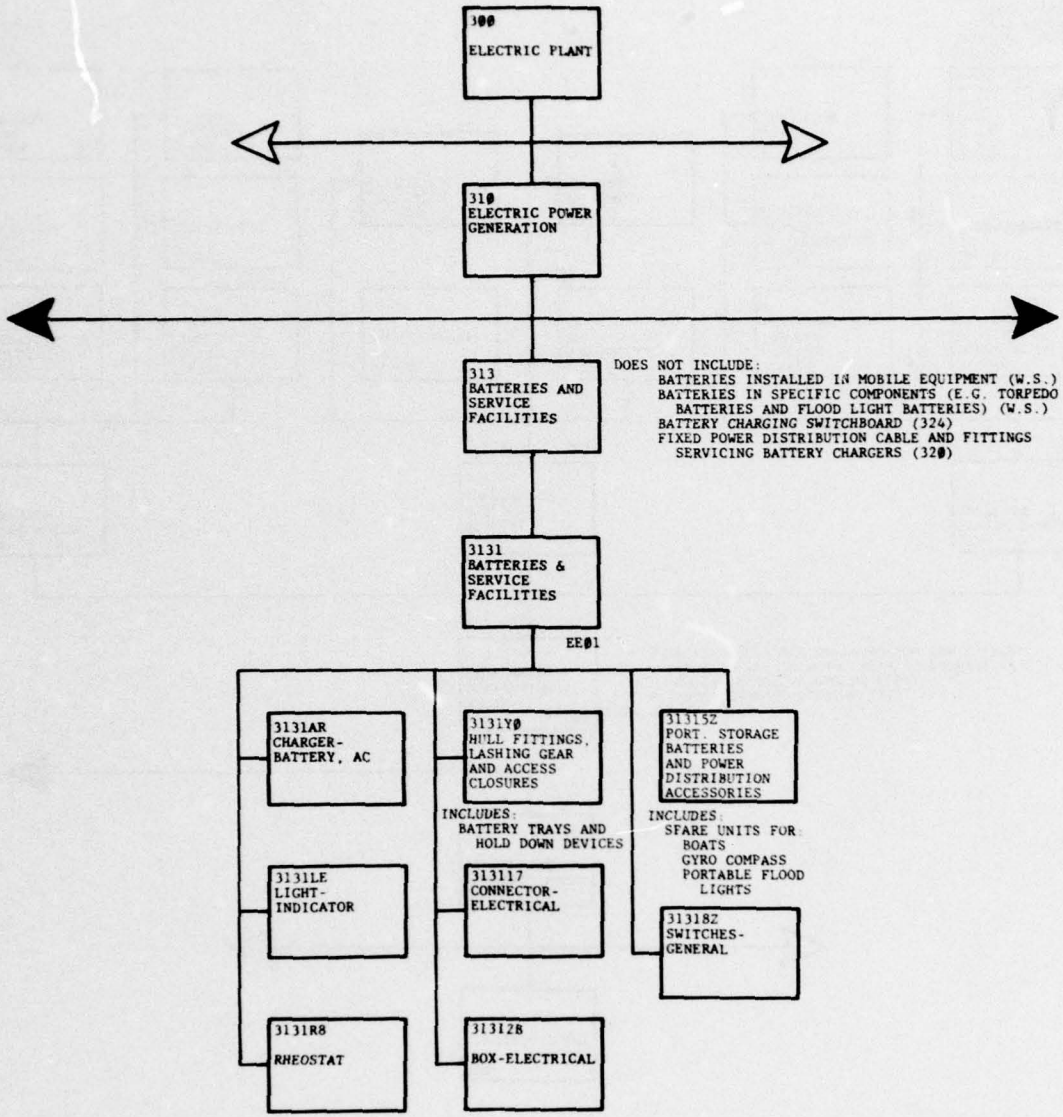

300
ELECTRIC PLANT
300
ELECTRIC PLANT, GENERAL
301
GENERAL ARRANGEMENT-ELECTRICAL DRAWINGS
302
MOTORS AND ASSOCIATED EQUIPMENT
303
PROTECTIVE DEVICES
304
ELECTRIC CABLES
305
ELECTRICAL DESIGNATING AND MARKING


300
ELECTRIC PLANT
310
ELECTRIC POWER GENERATION
311 3100
SHIP SERVICE POWER GENERATION
INCLUDES ALL POWER GENERATION SYSTEMS DESIGNATED AS PRIMARY SOURCES OF SHIP POWER.
DOES NOT INCLUDE:
ALARM, SAFETY, AND WARNING SYSTEMS (436)
MOTOR GENERATORS USED FOR POWER CONVERSION (314)
3111 310C
SHIP SERVICE STEAM TURBINE GENERATOR SET
DOES NOT INCLUDE:
SSTG CONDENSERS (2542)
SSTG LUBE OIL SYSTEM (341)
EE01
EM08
3112 3101
SHIP SERVICE DIESEL GENERATOR SET
NOTE: NOT USED.
311LA4
VALVE-SAFETY RELIEF
3111GN
GEAR ASSEMBLY-SPEED DECREASER, AUX SERVICE
3111G4
GOVERNOR-ELECTRIC
3111PK
PANEL-INDICATING
INCLUDES:
GENERATOR SYNCHRONIZATION
3111VI
VALVE-GLOBE
3111ZY
STRAINER-SEDIMENT
31118Z
SWITCHES-GENERAL
3111BH
BEARING ASSY-THRUST, PIVOTED SEGMENTAL, SINGLE OR DOUBLE
3111GT
GENERATOR-DC OR AC
3111LE
LIGHT-INDICATOR
3111QZ
REGULATOR-ELECTRICAL
INCLUDES:
VOLTAGE REGULATOR GE TYPE GNA-12A
3111VV
VALVE-NEEDLE
31117Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
311187
COUPLING-FLEXIBLE SHAFT, AUXILIARY SERVICE
3111E9
VALVE-TRIP THROTTLE
3111G1
GOVERNOR-HYDRAULIC
INCLUDES:
OVERSPEED TRIP
3111PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
3111VB
VALVE-ANGLE
3111YR
TURBINE-STEAM, AUXILIARY
311172
COOLER, AIR
DOG-37 CLASS
PREPARED 11-15-77

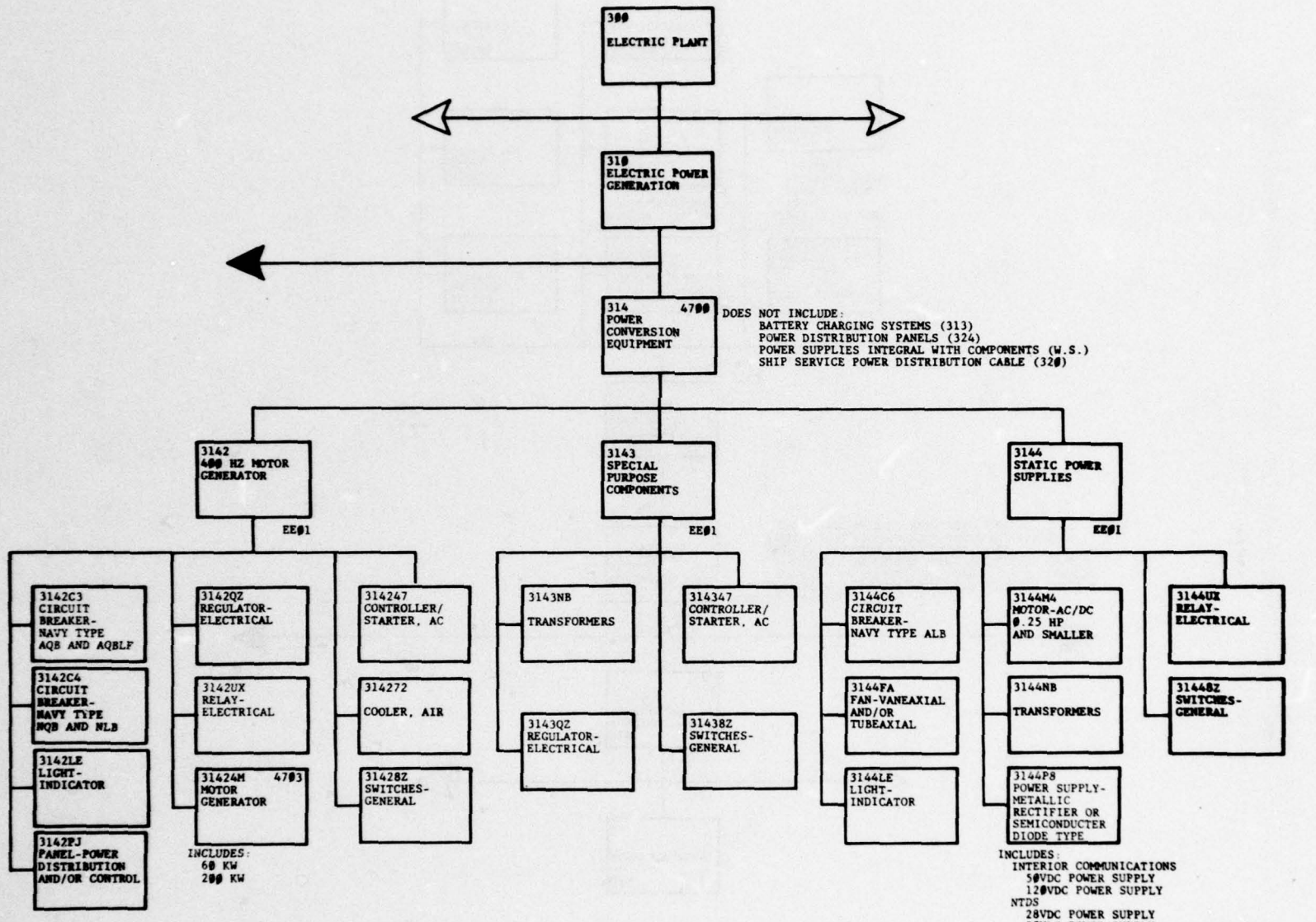

300
ELECTRIC PLANT
310
ELECTRIC POWER GENERATION
312 3300
EMERGENCY GENERATORS
DOES NOT INCLUDE:
ALARM, SAFETY, AND WARNING SYSTEMS (436)
3121
EMERGENCY SHIP SERVICE DIESEL GENERATOR SET
DOES NOT INCLUDE:
DIESEL SUPPORT SYSTEMS (342)
EA02
EE01
3121A4
VALVE-SAFETY RELIEF
3121FV
FILTER-AIR, WET OR DRY ELEMENTS
INCLUDES:
AIR INTAKE SILENCER
3121IB
ENGINE-DIESEL, TWO CYCLE
3121JP
INDICATOR-MECHANICAL TACHOMETER
3121KI
TACHOMETER
3121PX
PIPING SYSTEM HARDWARE
INCLUDES:
EXHAUST MANIFOLD
3121FD
RHEOSTAT
INCLUDES:
AUTOMATIC VOLTAGE CONTROL
3121GT
GENERATOR-AC OR DC
INCLUDES:
TACHOMETER, 15VDC
450VAC
AMPLIDYNE EXCITER
TY ASB ALTERNATOR
3121IN
MUFFLER-DRY
3121JW
INJECTOR-FUEL, DIESEL ENGINE, NOZZLE NON-METERING TYPE
3121KK
VALVE-PRESSURE REGULATING
INCLUDES:
LUBE OIL PRESSURE
3121QX
PUMP-CENTRIFUGAL, POWER DRIVEN
INCLUDES:
FRESH WATER PUMP
3121FK
FILTER-FLUID, PRESSURE
3121G1
GOVERNOR-HYDRAULIC
INCLUDES
DIESEL ENGINE REGULATING
DIESEL ENGINE OVERSPEED
3121JJ
INDICATOR-TEMPERATURE, ELECTRICAL
3121JX
INJECTOR-FUEL, DIESEL ENGINE, UNIT METERING AND PRESSURE
3121PK
PANEL-INDICATING
INCLUDES:
ENGINE INSTRUMENTATION
3121QZ
REGULATOR-ELECTRICAL
INCLUDES:
VOLTAGE REGULATOR TYPE GNA-12A
DDG-37 CLASS
PREPARED 8-30-77

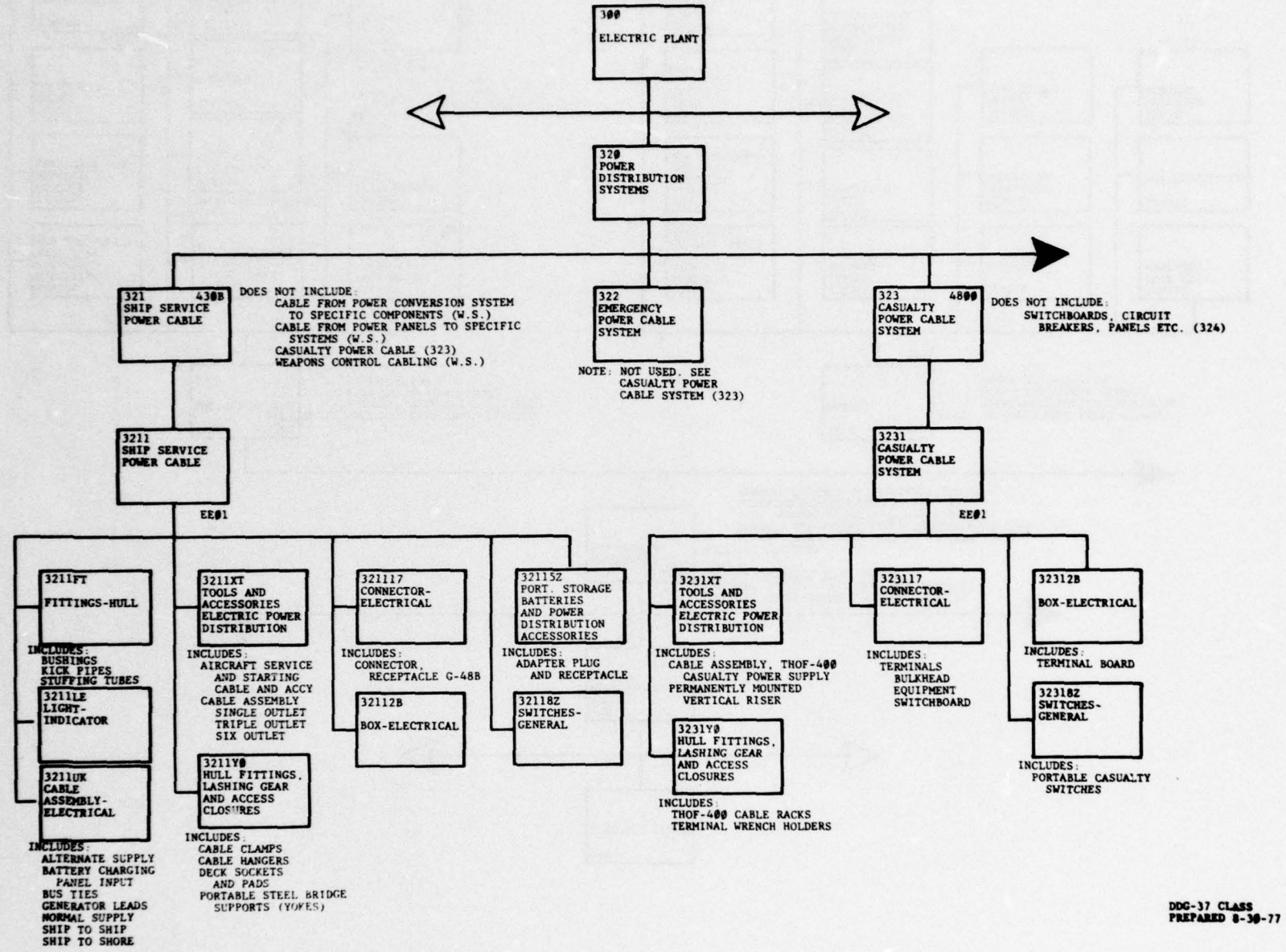


DDG-37 CLASS
PREPARED 8-30-77

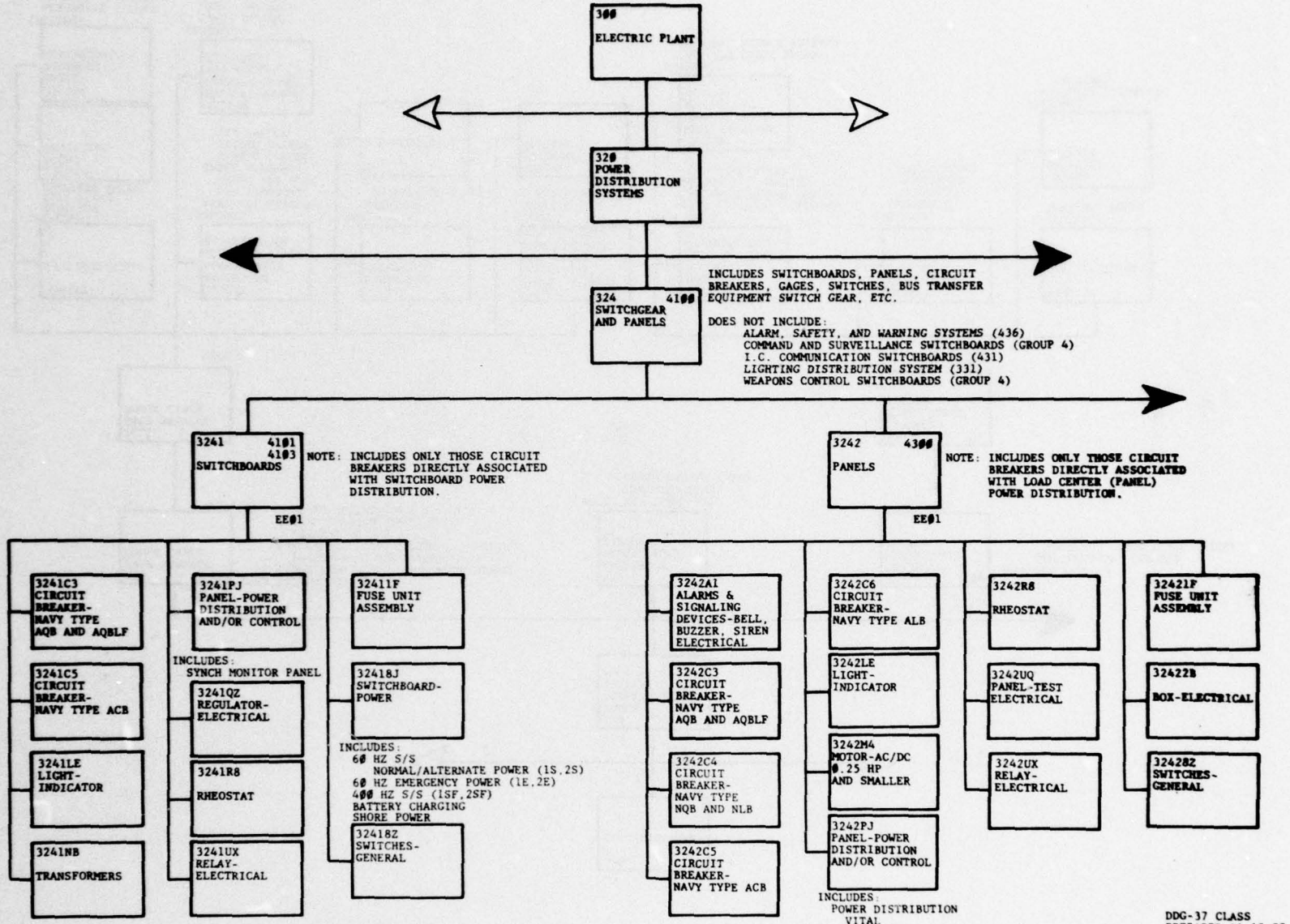


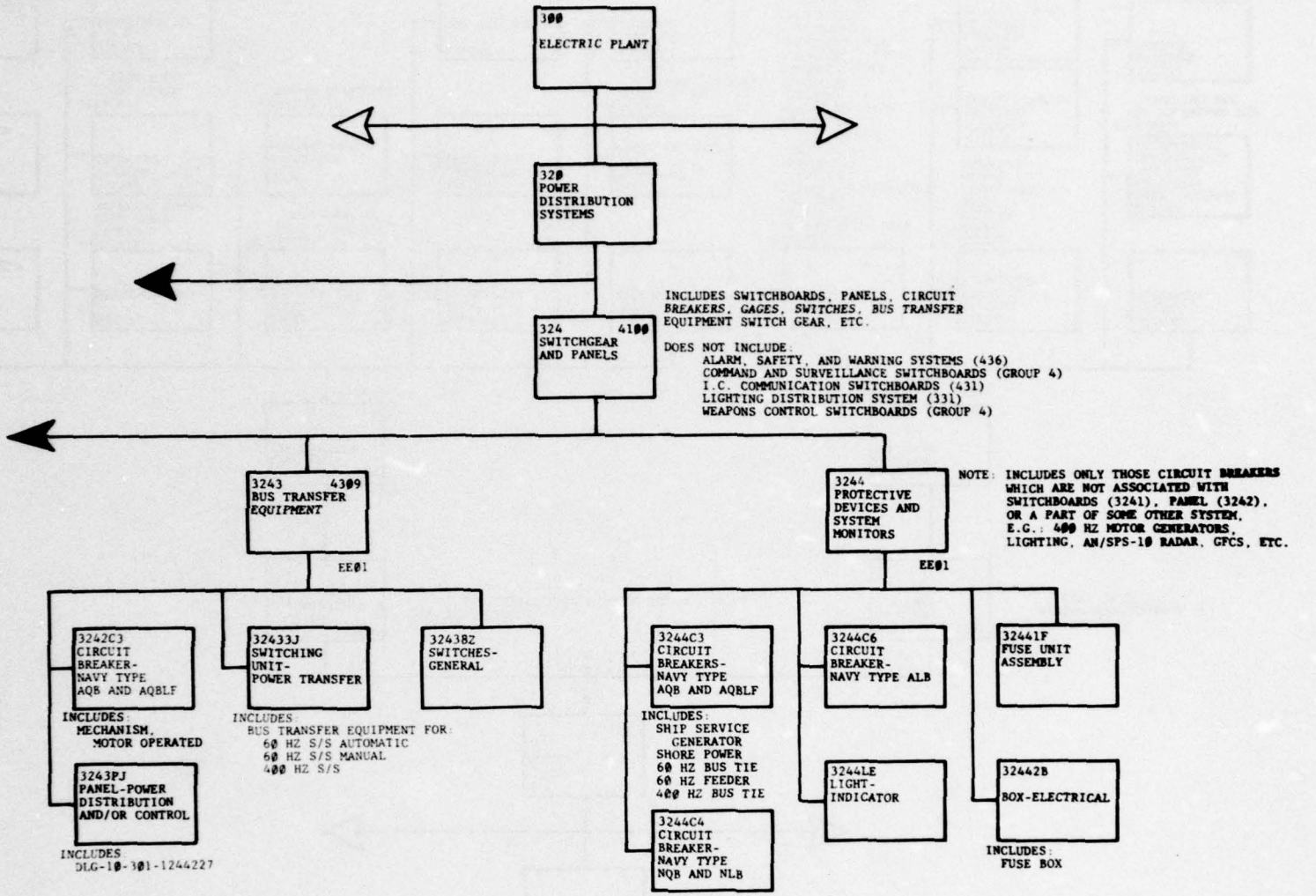
DDG-37 CLASS
PREPARED 8-30-77


300
ELECTRIC PLANT
310
ELECTRIC POWER GENERATION
314 4700
POWER CONVERSION EQUIPMENT
DOES NOT INCLUDE:
BATTERY CHARGING SYSTEMS (313)
POWER DISTRIBUTION PANELS (324)
POWER SUPPLIES INTEGRAL WITH COMPONENTS (W.S.)
SHIP SERVICE POWER DISTRIBUTION CABLE (320)
3142
400 HZ MOTOR GENERATOR
EE01
3143
SPECIAL PURPOSE COMPONENTS
EE01
3144
STATIC POWER SUPPLIES
EE01
3142C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
3142C4
CIRCUIT BREAKER-NAVY TYPE NQB AND NLB
3142LE
LIGHT-INDICATOR
3142PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
3142QZ
REGULATOR-ELECTRICAL
3142UX
RELAY-ELECTRICAL
31424M 4703
MOTOR GENERATOR
INCLUDES:
60 KW
200 KW
314247
CONTROLLER/STARTER, AC
314272
COOLER, AIR
31428Z
SWITCHES-GENERAL
3143NB
TRANSFORMERS
3143QZ
REGULATOR-ELECTRICAL
314347
CONTROLLER/STARTER, AC
31438Z
SWITCHES-GENERAL
3144C6
CIRCUIT BREAKER-NAVY TYPE ALB
3144FA
FAN-VANEAXIAL AND/OR TUBEAXIAL
3144LE
LIGHT-INDICATOR
3144M4
MOTOR-AC/DC 0.25 HP AND SMALLER
3144NB
TRANSFORMERS
3144P8
POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTER DIODE TYPE
INCLUDES:
INTERIOR COMMUNICATIONS
50VDC POWER SUPPLY
120VDC POWER SUPPLY
NTDS
28VDC POWER SUPPLY
50VDC POWER SUPPLY
3144UX
RELAY-ELECTRICAL
31448Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

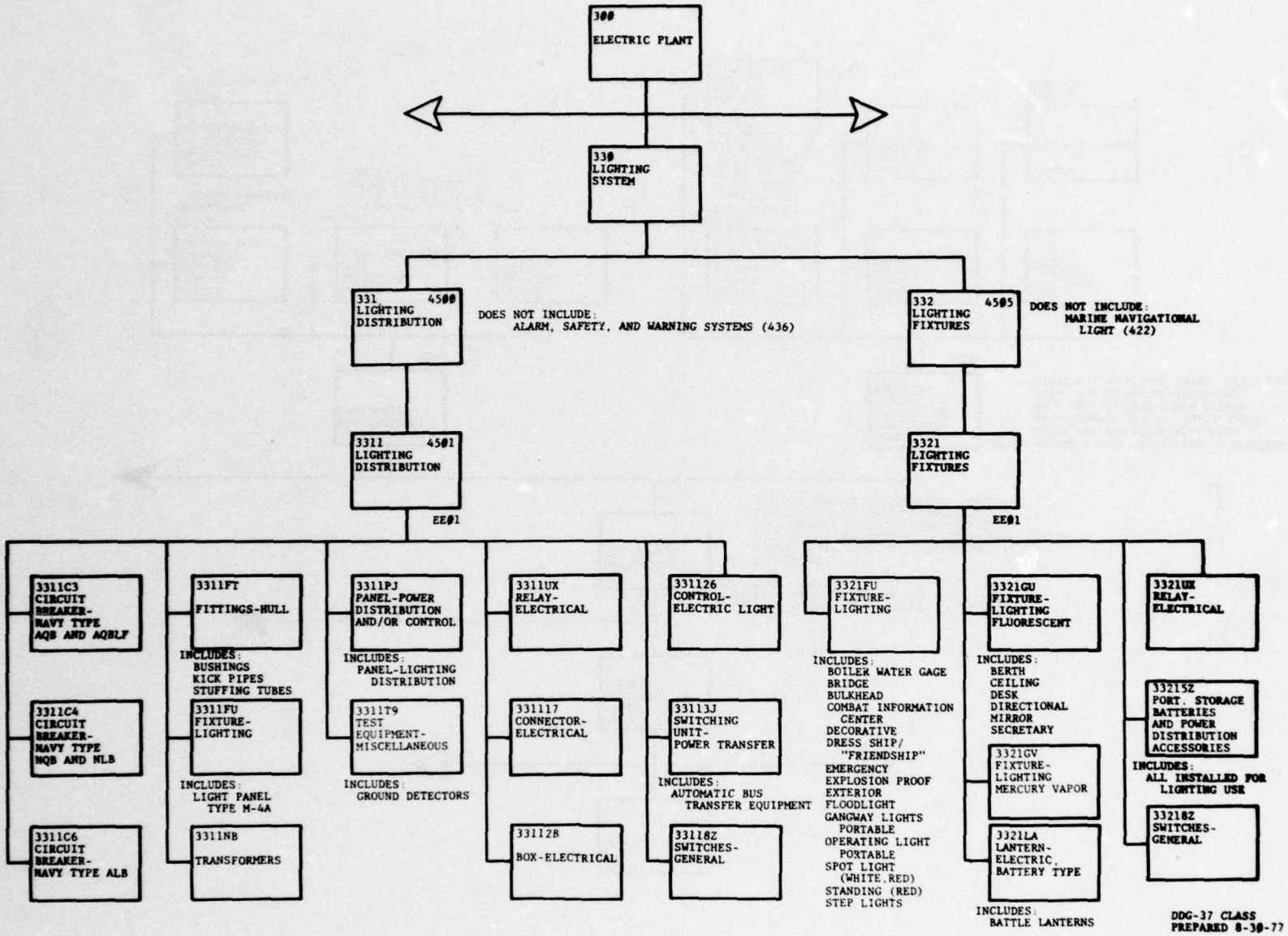


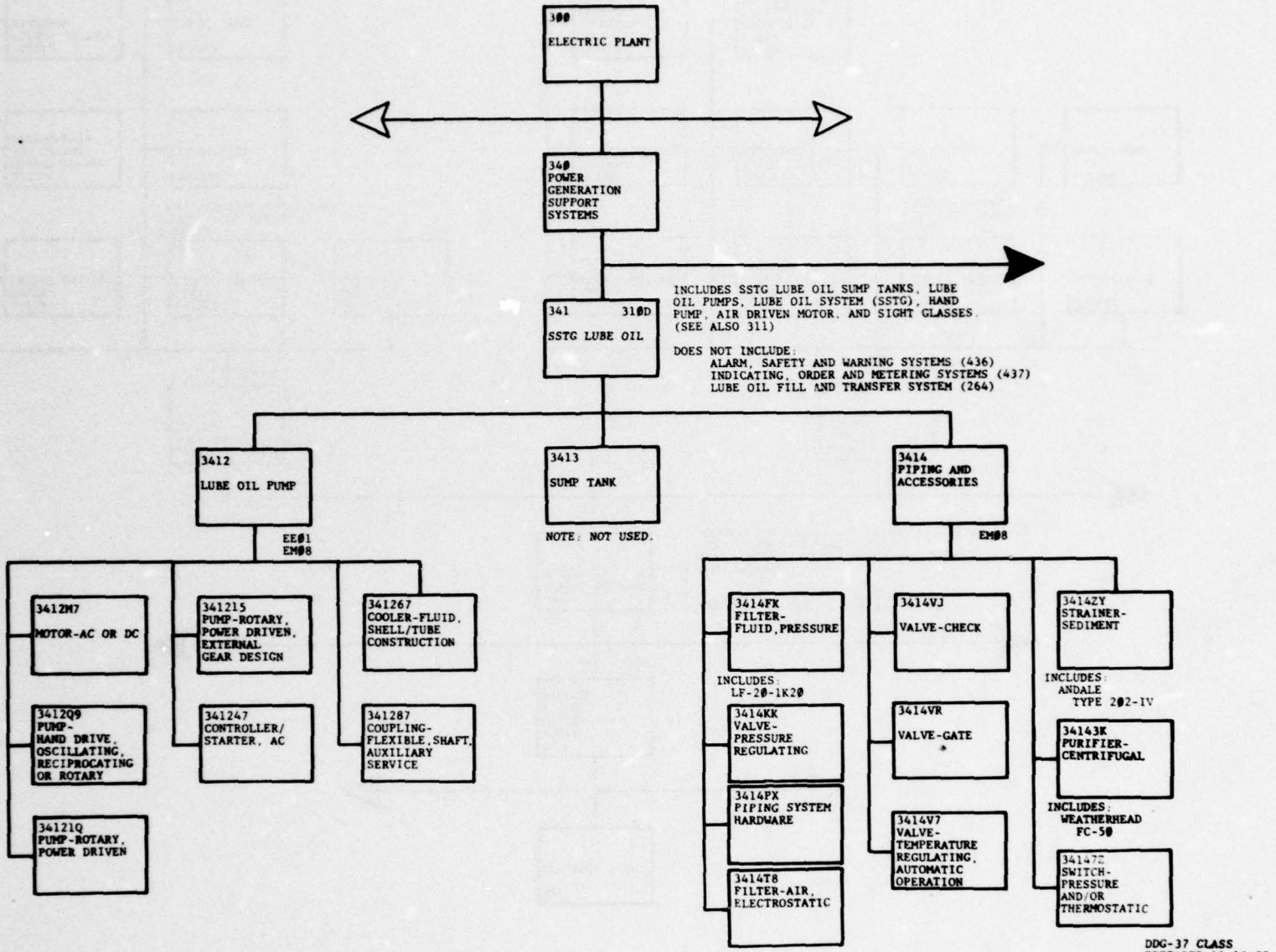
DDG-37 CLASS
PREPARED 8-30-77


300
ELECTRIC PLANT
320
POWER DISTRIBUTION SYSTEMS
324 4100
SWITCHGEAR AND PANELS
INCLUDES SWITCHBOARDS, PANELS, CIRCUIT BREAKERS, GAGES, SWITCHES, BUS TRANSFER EQUIPMENT SWITCH GEAR, ETC.
DOES NOT INCLUDE:
ALARM, SAFETY, AND WARNING SYSTEMS (436)
COMMAND AND SURVEILLANCE SWITCHBOARDS (GROUP 4)
I.C. COMMUNICATION SWITCHBOARDS (431)
LIGHTING DISTRIBUTION SYSTEM (331)
WEAPONS CONTROL SWITCHBOARDS (GROUP 4)
3241 4101 4103
SWITCHBOARDS
NOTE: INCLUDES ONLY THOSE CIRCUIT BREAKERS DIRECTLY ASSOCIATED WITH SWITCHBOARD POWER DISTRIBUTION.
EE01
3241C3 CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
3241C5 CIRCUIT BREAKER-NAVY TYPE ACB
3241LE LIGHT-INDICATOR
3241NB TRANSFORMERS
3241PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
SYNCH MONITOR PANEL
3241QZ REGULATOR-ELECTRICAL
3241R8 RHEOSTAT
3241UX RELAY-ELECTRICAL
32411F FUSE UNIT ASSEMBLY
32418J SWITCHBOARD-POWER
INCLUDES:
60 HZ S/S
NORMAL/ALTERNATE POWER (1S,2S)
60 HZ EMERGENCY POWER (1E,2E)
400 HZ S/S (1SF,2SF)
BATTERY CHARGING
SHORE POWER
32418Z SWITCHES-GENERAL
3242 4300
PANELS
NOTE: INCLUDES ONLY THOSE CIRCUIT BREAKERS DIRECTLY ASSOCIATED WITH LOAD CENTER (PANEL) POWER DISTRIBUTION.
EE01
3242A1 ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
3242C3 CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
3242C4 CIRCUIT BREAKER-NAVY TYPE NQB AND NLB
3242C5 CIRCUIT BREAKER-NAVY TYPE ACB
3242C6 CIRCUIT BREAKER-NAVY TYPE ALB
3242LE LIGHT-INDICATOR
3242M4 MOTOR-AC/DC 0.25 HP AND SMALLER
3242PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
POWER DISTRIBUTION
VITAL
NON-VITAL
3242R8 RHEOSTAT
3242UQ PANEL-TEST ELECTRICAL
3242UX RELAY-ELECTRICAL
32421F FUSE UNIT ASSEMBLY
32422B BOX-ELECTRICAL
32428Z SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

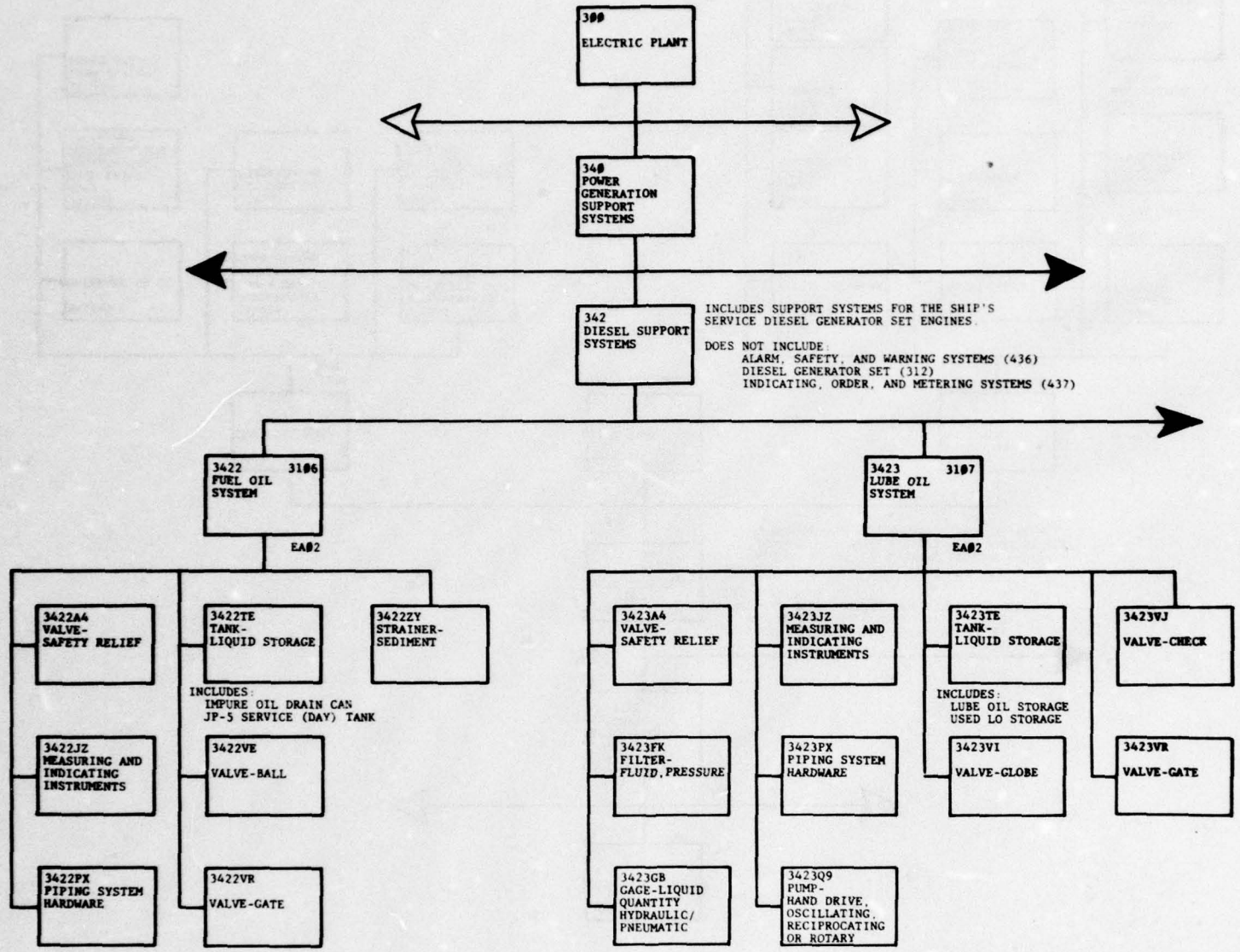


DDG-37 CLASS
PREPARED 11-15-77

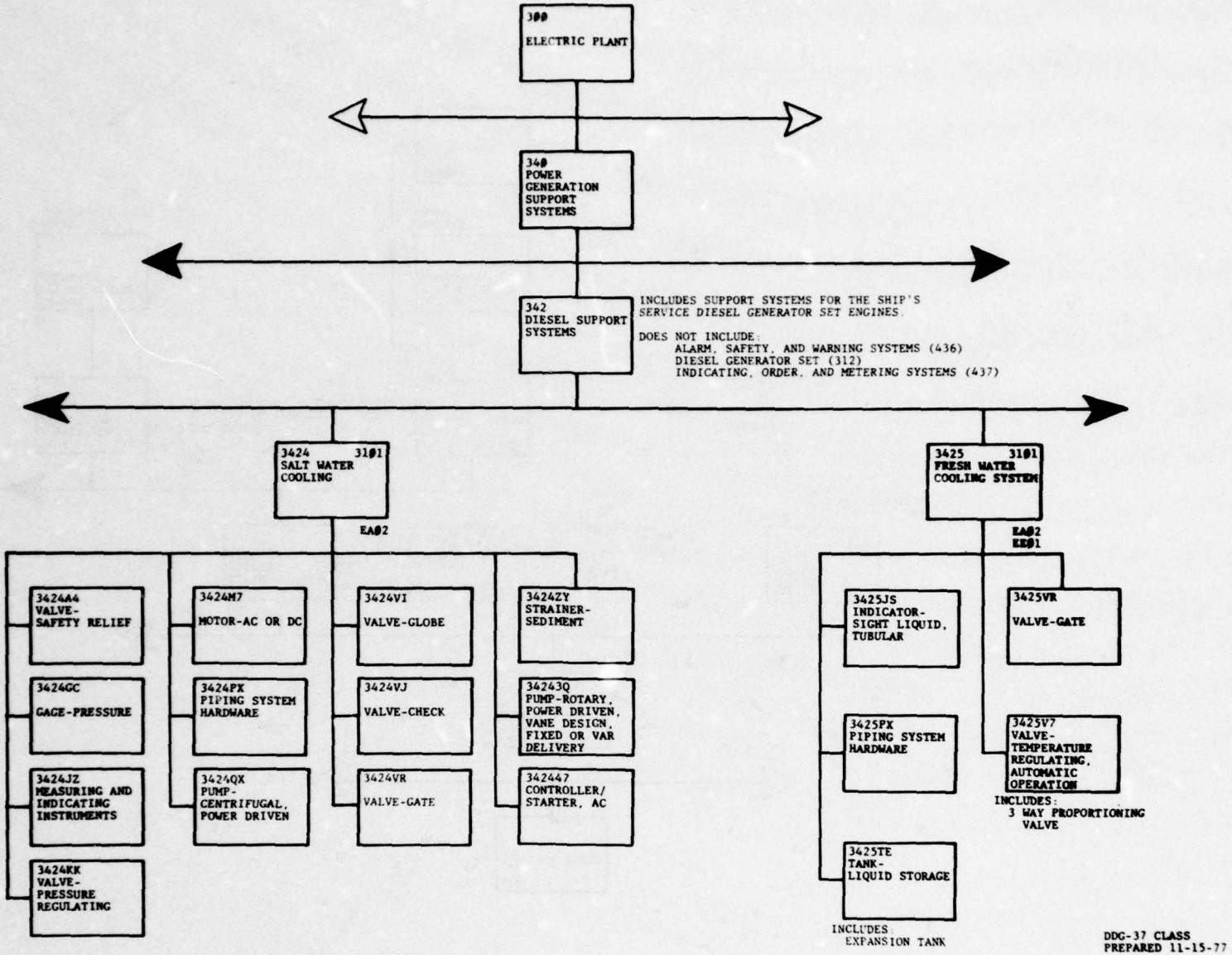

300
ELECTRIC PLANT
330
LIGHTING SYSTEM
331 4500
LIGHTING DISTRIBUTION
DOES NOT INCLUDE:
ALARM, SAFETY, AND WARNING SYSTEMS (436)
332 4505
LIGHTING FIXTURES
DOES NOT INCLUDE:
MARINE NAVIGATIONAL LIGHT (422)
3311 4501
LIGHTING DISTRIBUTION
EE01
3321
LIGHTING FIXTURES
EE01
3311C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
3311C4
CIRCUIT BREAKER-NAVY TYPE NQB AND NLB
3311C6
CIRCUIT BREAKER-NAVY TYPE ALB
3311FT
FITTINGS-HULL
INCLUDES:
BUSHINGS
KICK PIPES
STUFFING TUBES
3311FU
FIXTURE-LIGHTING
INCLUDES:
LIGHT PANEL TYPE M-4A
3311NB
TRANSFORMERS
3311PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
PANEL-LIGHTING DISTRIBUTION
3311T9
TEST EQUIPMENT-MISCELLANEOUS
INCLUDES:
GROUND DETECTORS
3311UX
RELAY-ELECTRICAL
331117
CONNECTOR-ELECTRICAL
331128
BOX-ELECTRICAL
331126
CONTROL-ELECTRIC LIGHT
33113J
SWITCHING UNIT-POWER TRANSFER
INCLUDES:
AUTOMATIC BUS TRANSFER EQUIPMENT
33118Z
SWITCHES-GENERAL
3321FU
FIXTURE-LIGHTING
INCLUDES:
BOILER WATER GAGE
BRIDGE
BULKHEAD
COMBAT INFORMATION CENTER
DECORATIVE
DRESS SHIP/"FRIENDSHIP"
EMERGENCY
EXPLOSION PROOF
EXTERIOR
FLOODLIGHT
GANGWAY LIGHTS PORTABLE
OPERATING LIGHT PORTABLE
SPOT LIGHT (WHITE,RED)
STANDING (RED)
STEP LIGHTS
3321GU
FIXTURE-LIGHTING FLUORESCENT
INCLUDES:
BERTH
CEILING
DESK
DIRECTIONAL
MIRROR
SECRETARY
3321GV
FIXTURE-LIGHTING MERCURY VAPOR
3321LA
LANTERN-ELECTRIC, BATTERY TYPE
INCLUDES:
BATTLE LANTERNS
3321UX
RELAY-ELECTRICAL
33215Z
PORT. STORAGE BATTERIES AND POWER DISTRIBUTION ACCESSORIES
INCLUDES:
ALL INSTALLED FOR LIGHTING USE
33218Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 8-30-77

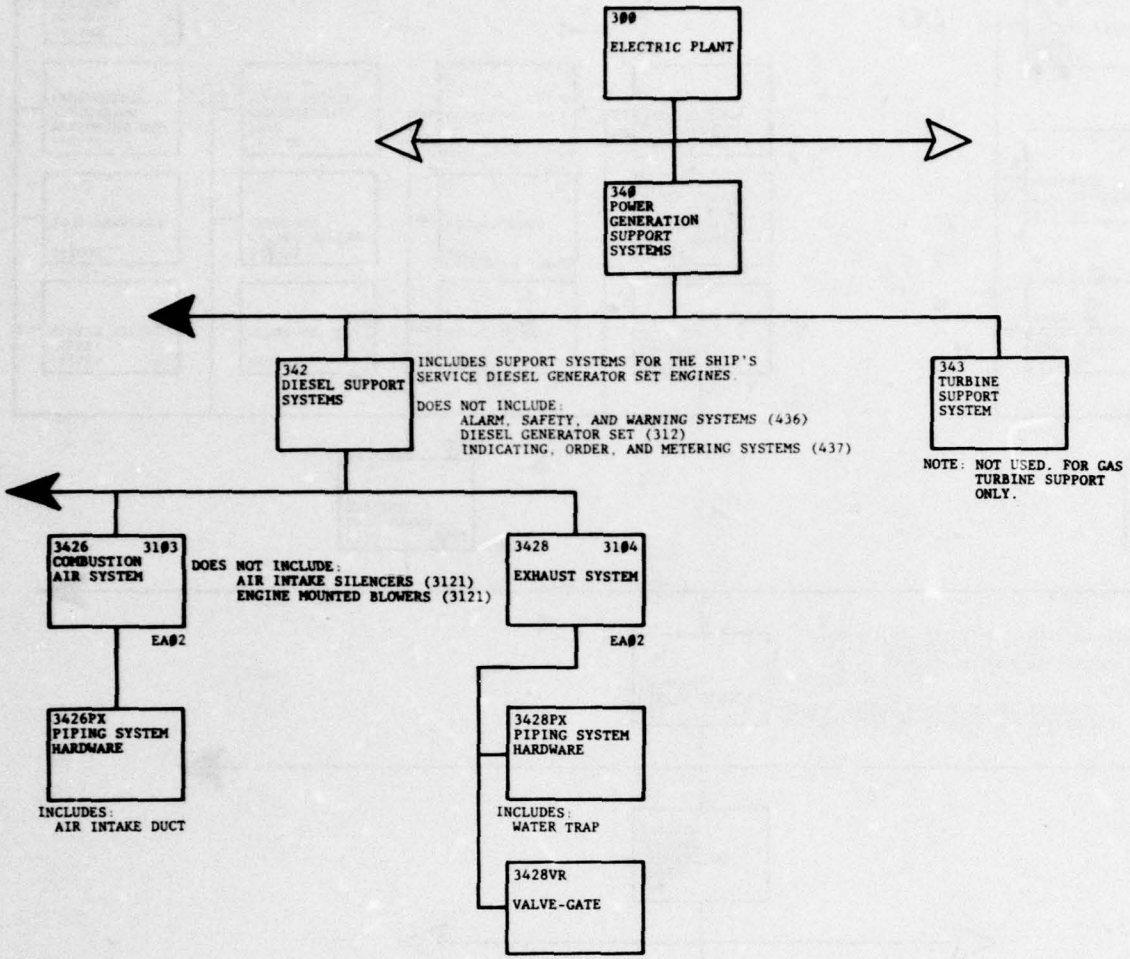


DDG-37 CLASS
PREPARED 11-15-77

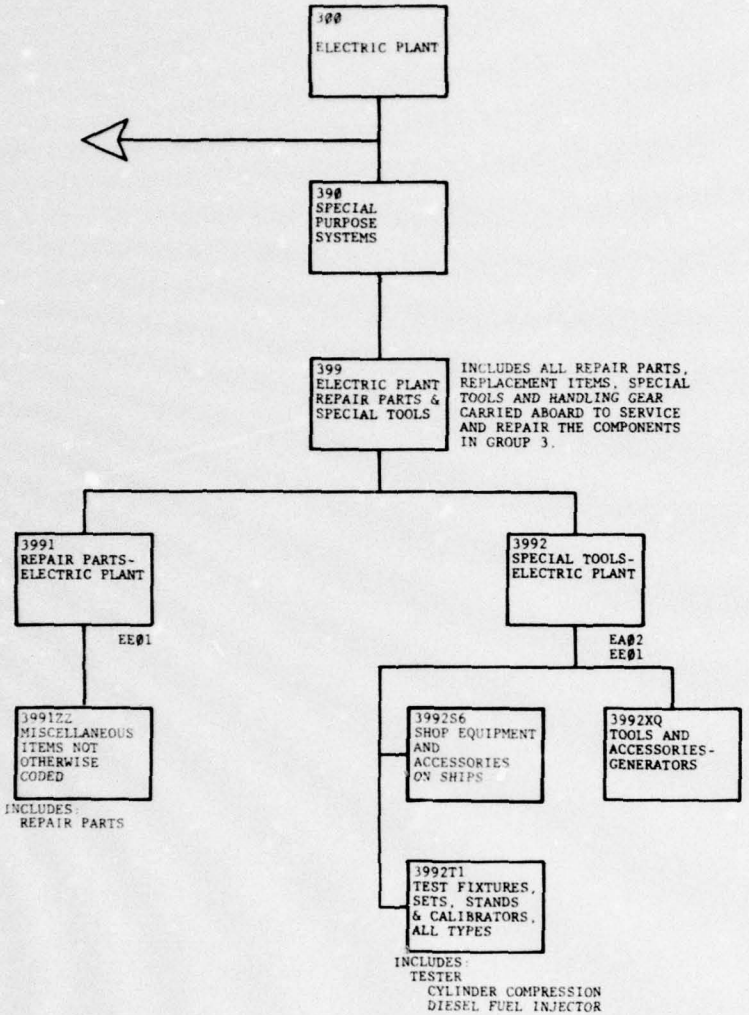


DDG-37 CLASS
PREPARED 11-15-77


300
ELECTRIC PLANT
340
POWER GENERATION SUPPORT SYSTEMS
342
DIESEL SUPPORT SYSTEMS
INCLUDES SUPPORT SYSTEMS FOR THE SHIP'S SERVICE DIESEL GENERATOR SET ENGINES.
DOES NOT INCLUDE:
ALARM, SAFETY, AND WARNING SYSTEMS (436)
DIESEL GENERATOR SET (312)
INDICATING, ORDER, AND METERING SYSTEMS (437)
3424 3101
SALT WATER COOLING
EA02
3424A4
VALVE-SAFETY RELIEF
3424GC
GAGE-PRESSURE
3424JZ
MEASURING AND INDICATING INSTRUMENTS
3424KK
VALVE-PRESSURE REGULATING
3424M7
MOTOR-AC OR DC
3424PX
PIPING SYSTEM HARDWARE
3424QX
PUMP-CENTRIFUGAL, POWER DRIVEN
3424VI
VALVE-GLOBE
3424VJ
VALVE-CHECK
3424VR
VALVE-GATE
3424ZY
STRAINER-SEDIMENT
34243Q
PUMP-ROTARY, POWER DRIVEN, VANE DESIGN, FIXED OR VAR DELIVERY
342447
CONTROLLER/STARTER, AC
3425 3101
FRESH WATER COOLING SYSTEM
EA02
EE01
3425JS
INDICATOR-SIGHT LIQUID, TUBULAR
3425PX
PIPING SYSTEM HARDWARE
3425TE
TANK-LIQUID STORAGE
INCLUDES: EXPANSION TANK
3425VR
VALVE-GATE
3425V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
INCLUDES: 3 WAY PROPORTIONING VALVE
DDG-37 CLASS
PREPARED 11-15-77

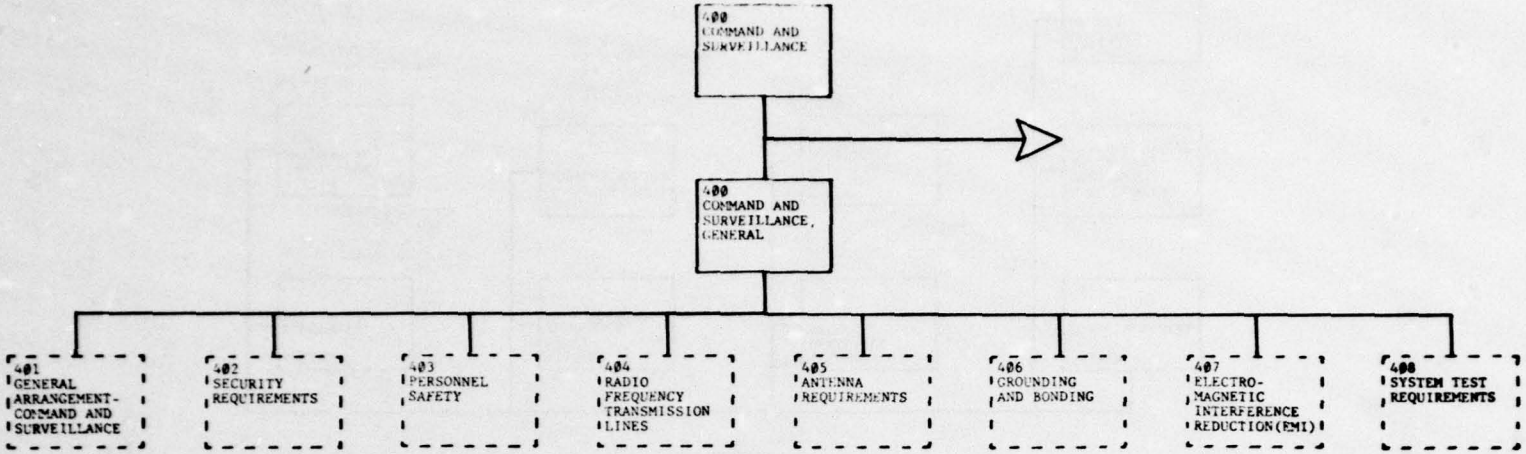


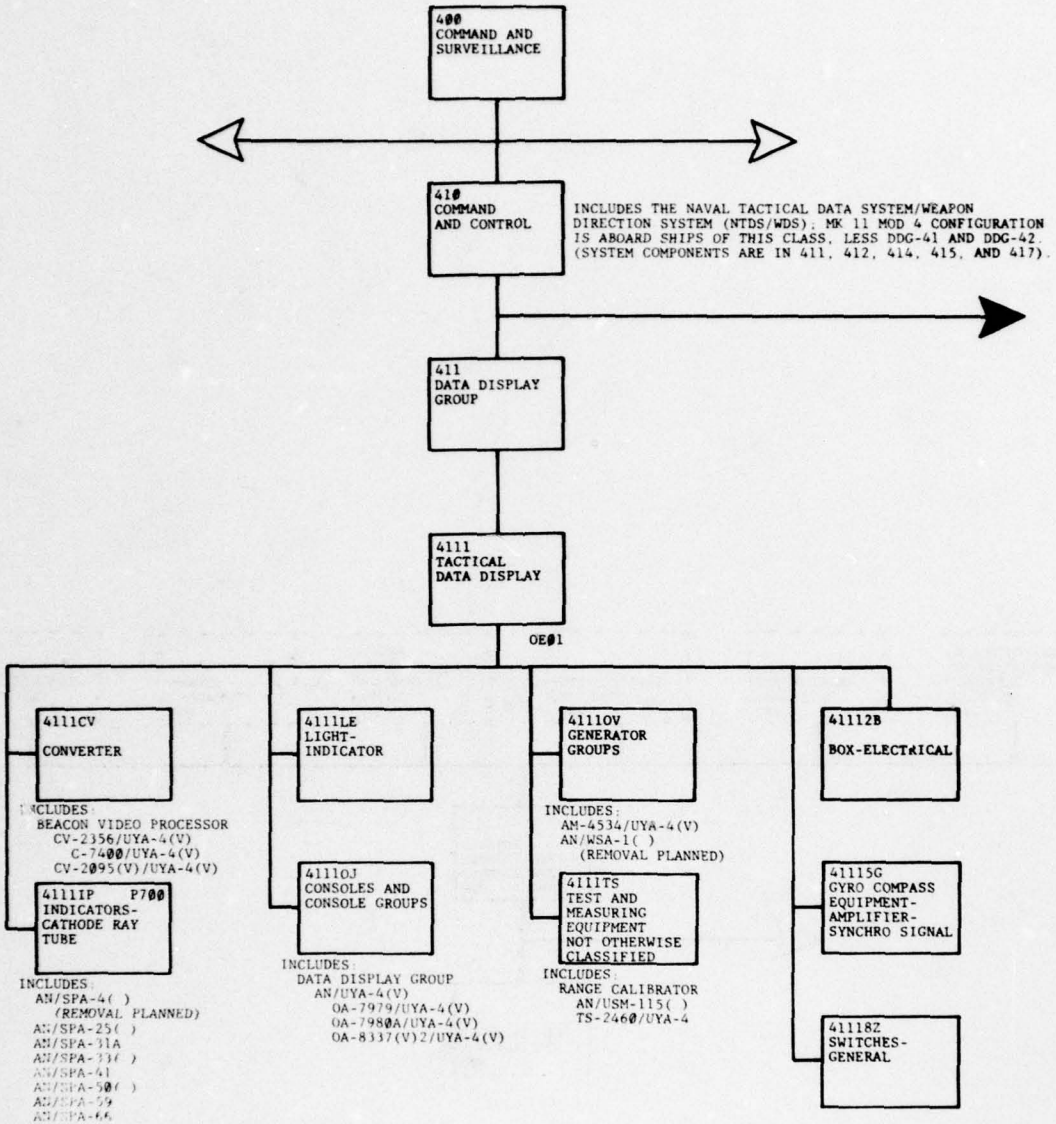
DDG-37 CLASS
PREPARED 11-15-77



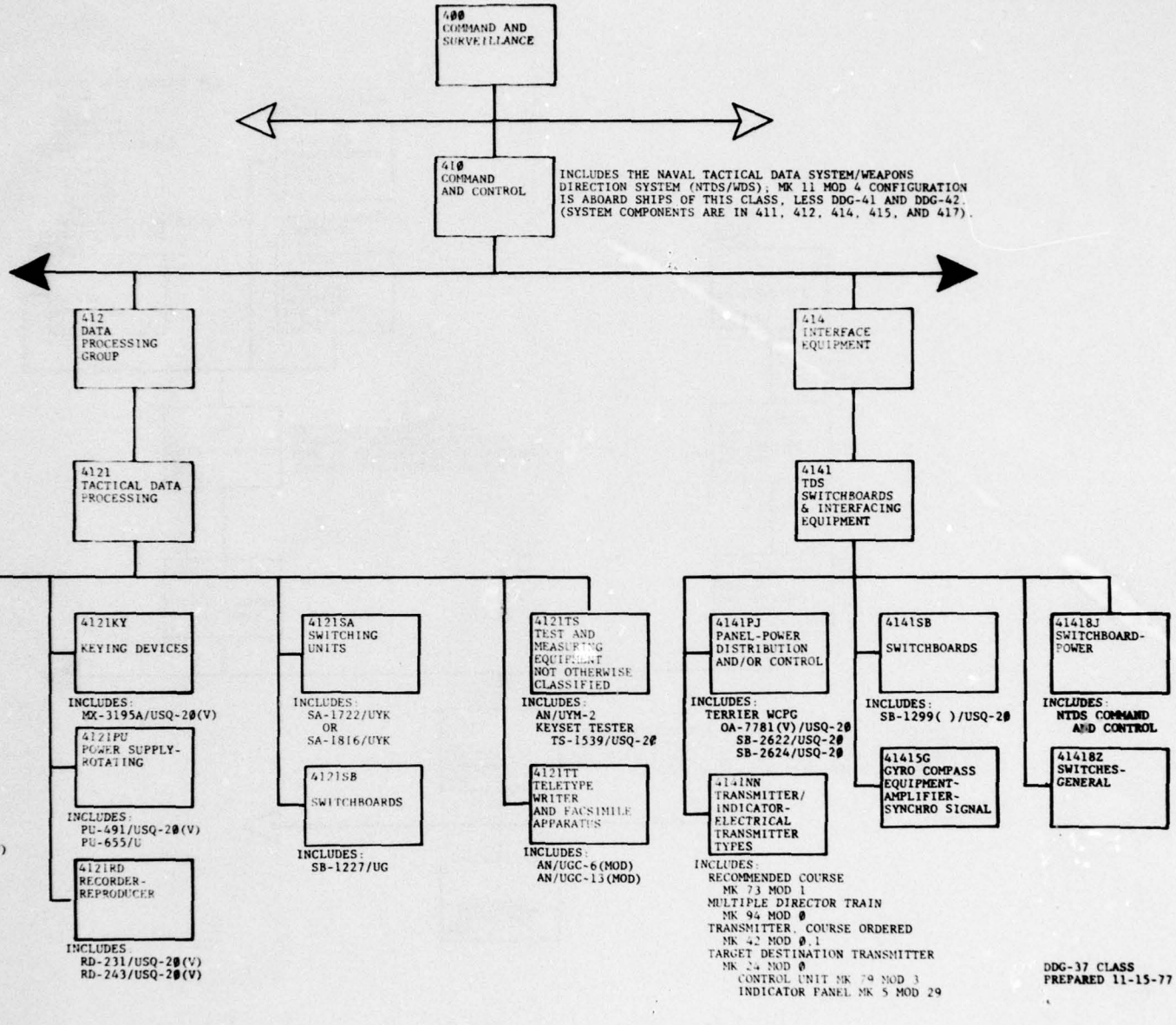
75/76

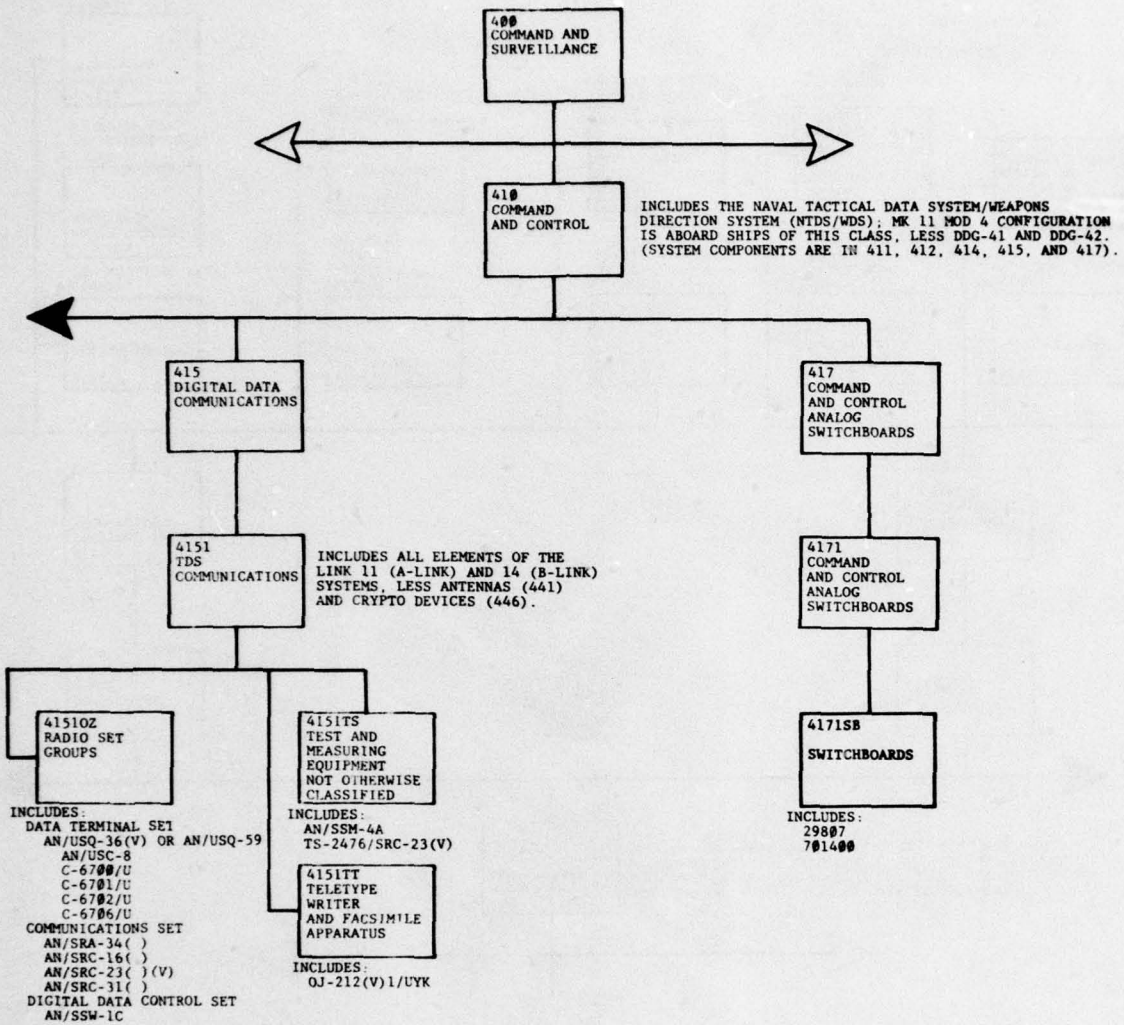
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
400
COMMAND AND SURVEILLANCE, GENERAL
401
GENERAL ARRANGEMENT-COMMAND AND SURVEILLANCE
402
SECURITY REQUIREMENTS
403
PERSONNEL SAFETY
404
RADIO FREQUENCY TRANSMISSION LINES
405
ANTENNA REQUIREMENTS
406
GROUNDING AND BONDING
407
ELECTRO-MAGNETIC INTERFERENCE REDUCTION(EMI)
408
SYSTEM TEST REQUIREMENTS

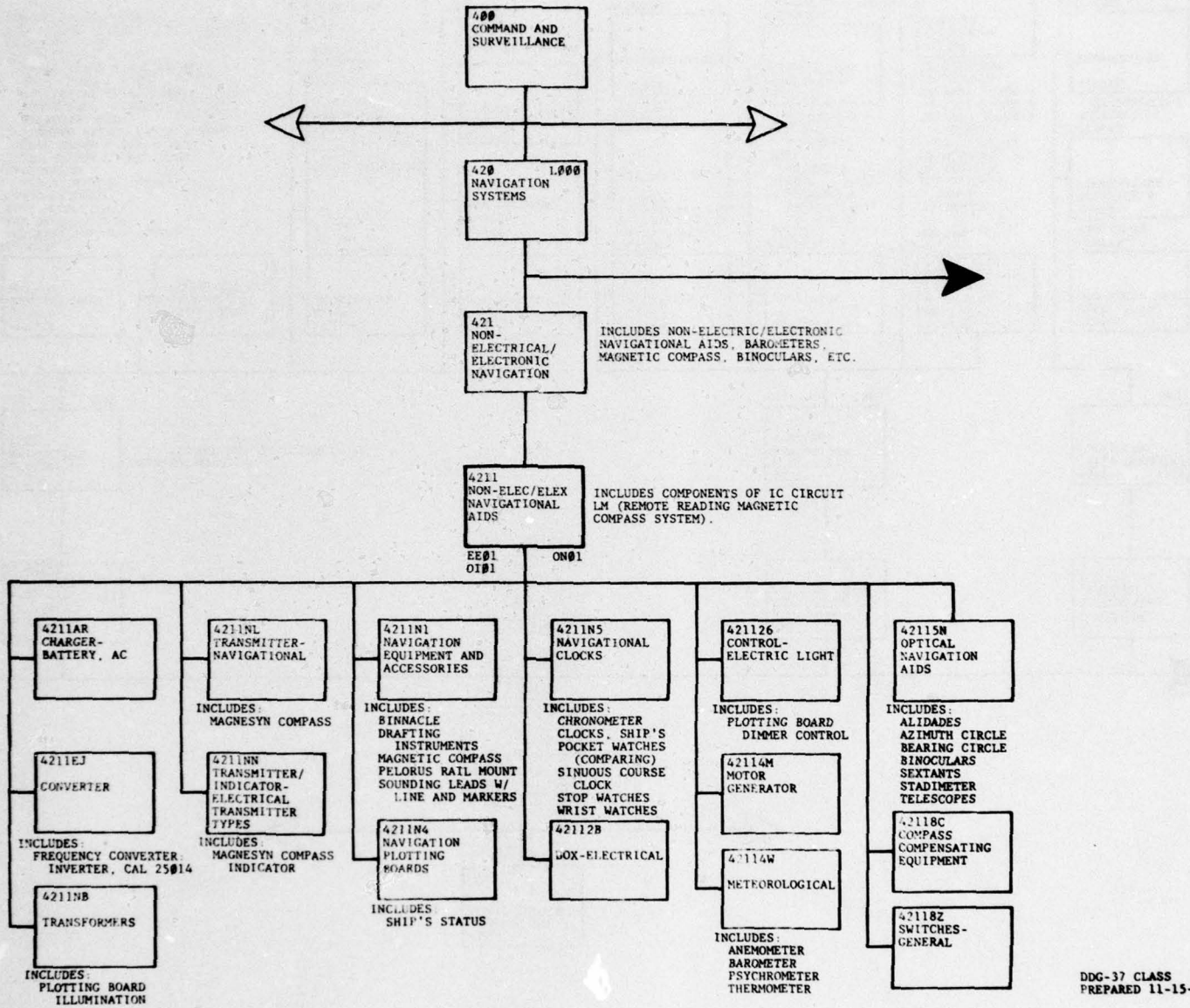


DDG-37 CLASS
PREPARED 11-15-77

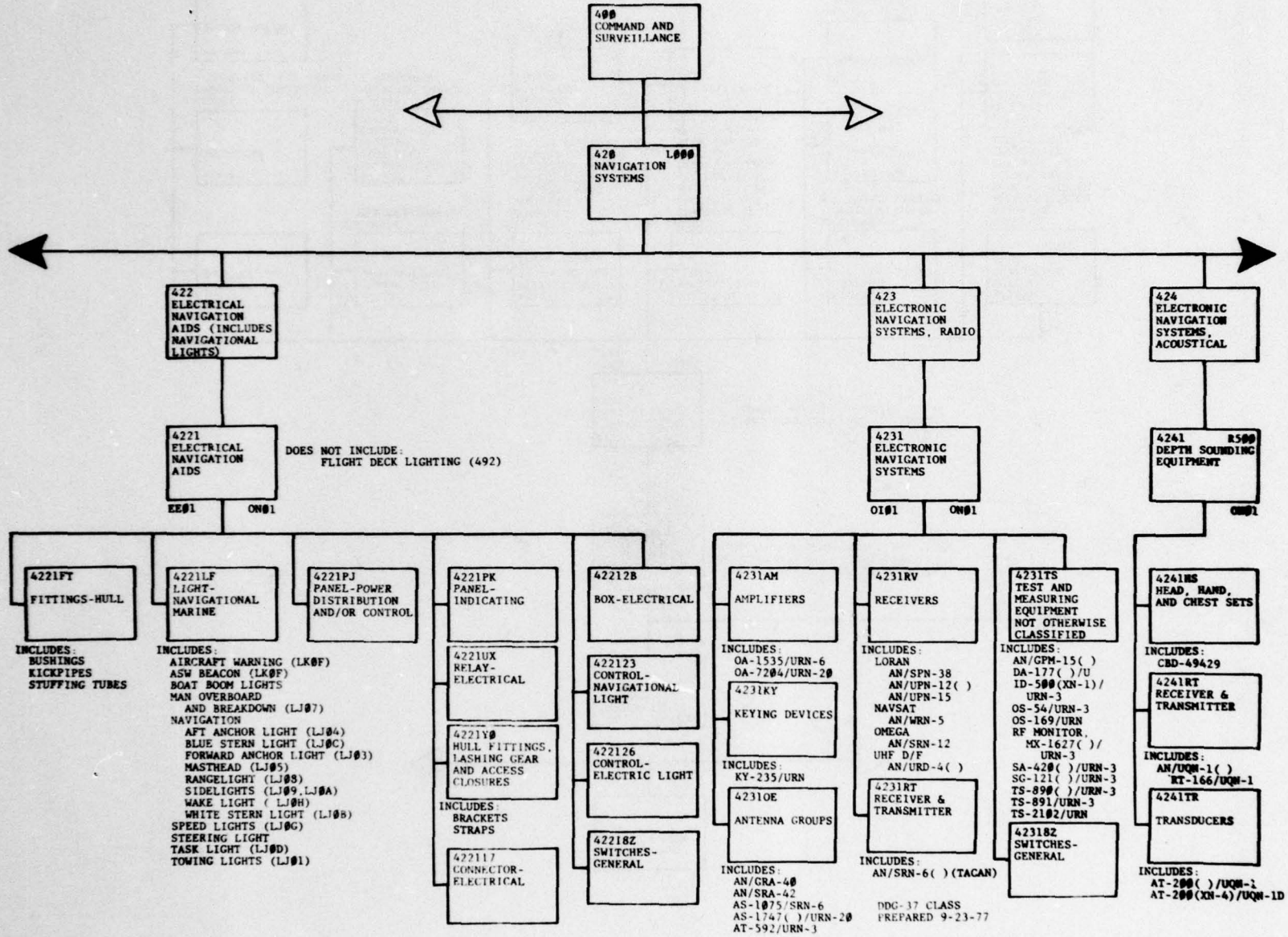

400
COMMAND AND SURVEILLANCE
410
COMMAND AND CONTROL
INCLUDES THE NAVAL TACTICAL DATA SYSTEM/WEAPONS DIRECTION SYSTEM (NTDS/WDS); MK 11 MOD 4 CONFIGURATION IS ABOARD SHIPS OF THIS CLASS, LESS DDG-41 AND DDG-42. (SYSTEM COMPONENTS ARE IN 411, 412, 414, 415, AND 417).
412
DATA PROCESSING GROUP
414
INTERFACE EQUIPMENT
4121
TACTICAL DATA PROCESSING
4141
TDS SWITCHBOARDS & INTERFACING EQUIPMENT
4121CO
CONTROLS
INCLUDES:
C-3674A/USQ-20(V)
C-8086/U
4121CP
COMPUTER
INCLUDES:
AN/USQ-20(V)
CP-642( )/USQ-20(V)
CP-789/UYK
MU-602(V)/UYK
REFRESH MEMORY UNIT
4121CV
CONVERTER
INCLUDES:
CV-2517(A)/UYK
CV-2518/UYK
4121KY
KEYING DEVICES
INCLUDES:
MX-3195A/USQ-20(V)
4121PU
POWER SUPPLY-ROTATING
INCLUDES:
PU-491/USQ-20(V)
PU-655/U
4121RD
RECORDER-REPRODUCER
INCLUDES:
RD-231/USQ-20(V)
RD-243/USQ-20(V)
4121SA
SWITCHING UNITS
INCLUDES:
SA-1722/UYK
OR
SA-1816/UYK
4121SB
SWITCHBOARDS
INCLUDES:
SB-1227/UG
4121TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
AN/UYM-2
KEYSET TESTER
TS-1539/USQ-20
4121TT
TELETYPE WRITER AND FACSIMILE APPARATUS
INCLUDES:
AN/UGC-6(MOD)
AN/UGC-13(MOD)
4141PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
TERRIER WCPG
OA-7781(V)/USQ-20
SB-2622/USQ-20
SB-2624/USQ-20
4141NN
TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES:
RECOMMENDED COURSE
MK 73 MOD 1
MULTIPLE DIRECTOR TRAIN
MK 94 MOD 0
TRANSMITTER, COURSE ORDERED
MK 42 MOD 0,1
TARGET DESTINATION TRANSMITTER
MK 24 MOD 0
CONTROL UNIT MK 79 MOD 3
INDICATOR PANEL MK 5 MOD 29
4141SB
SWITCHBOARDS
INCLUDES:
SB-1299( )/USQ-20
41415G
GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
41418J
SWITCHBOARD-POWER
INCLUDES:
NTDS COMMAND AND CONTROL
41418Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

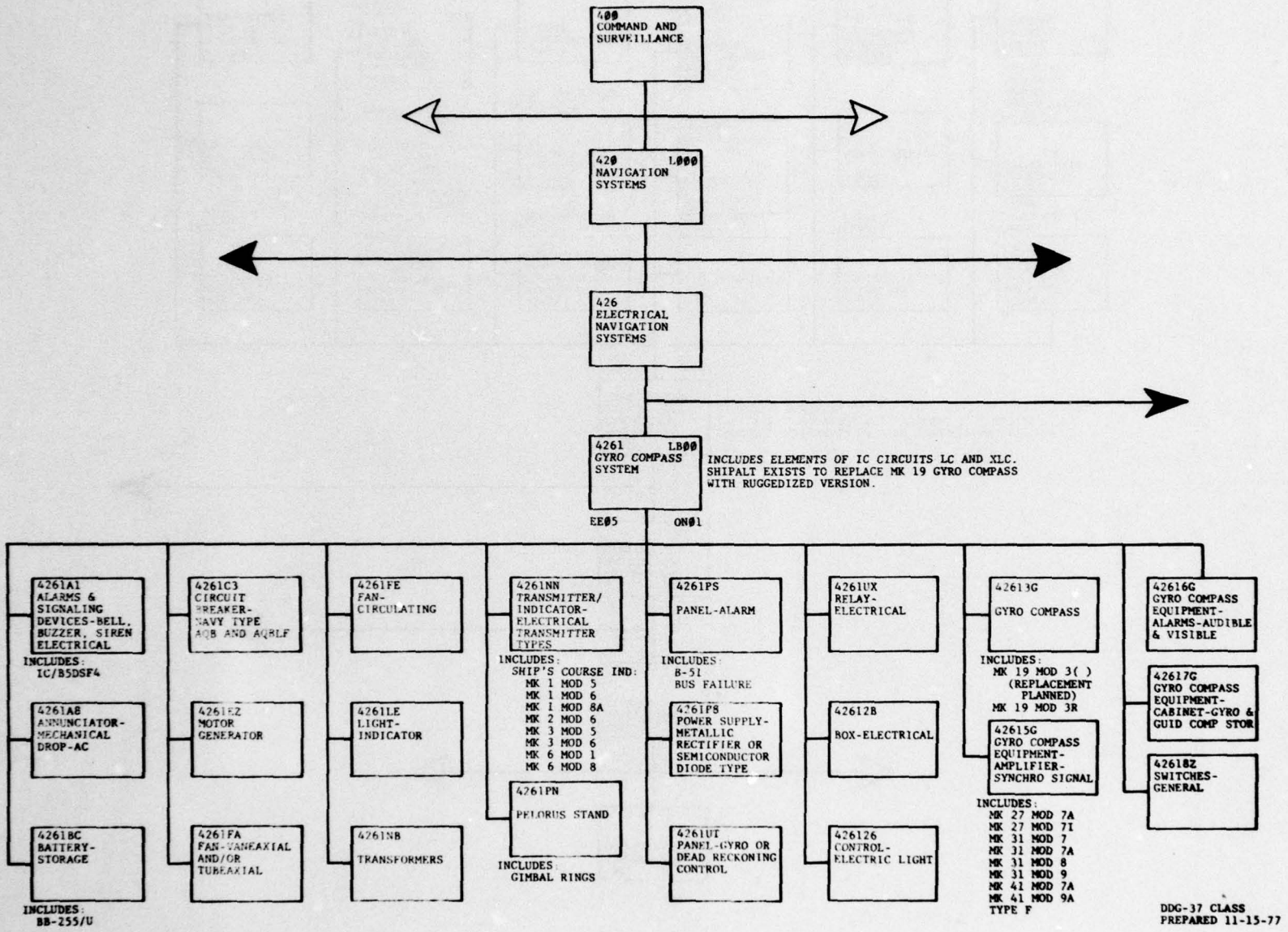


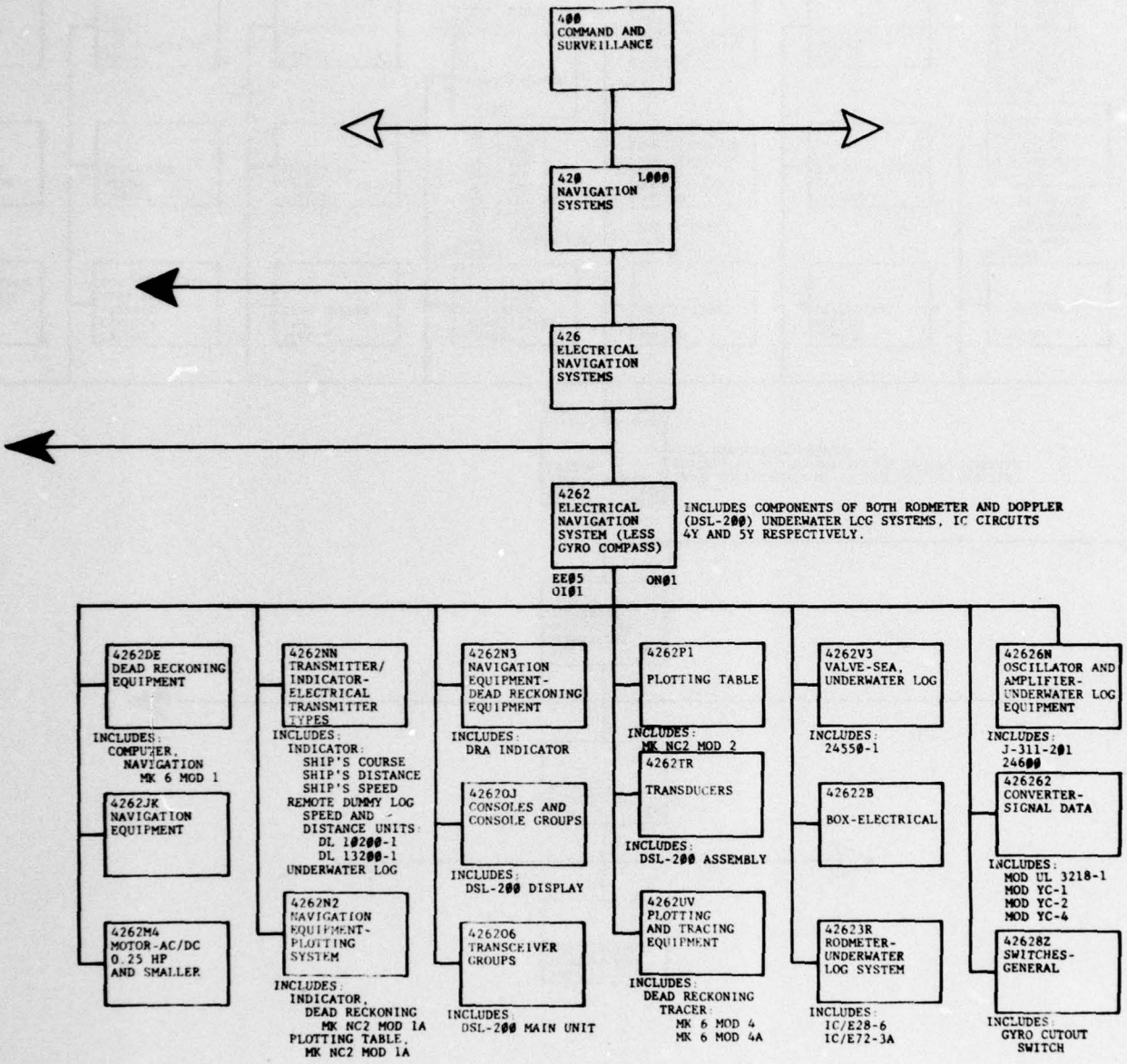
DDG-37 CLASS
PREPARED 11-15-77



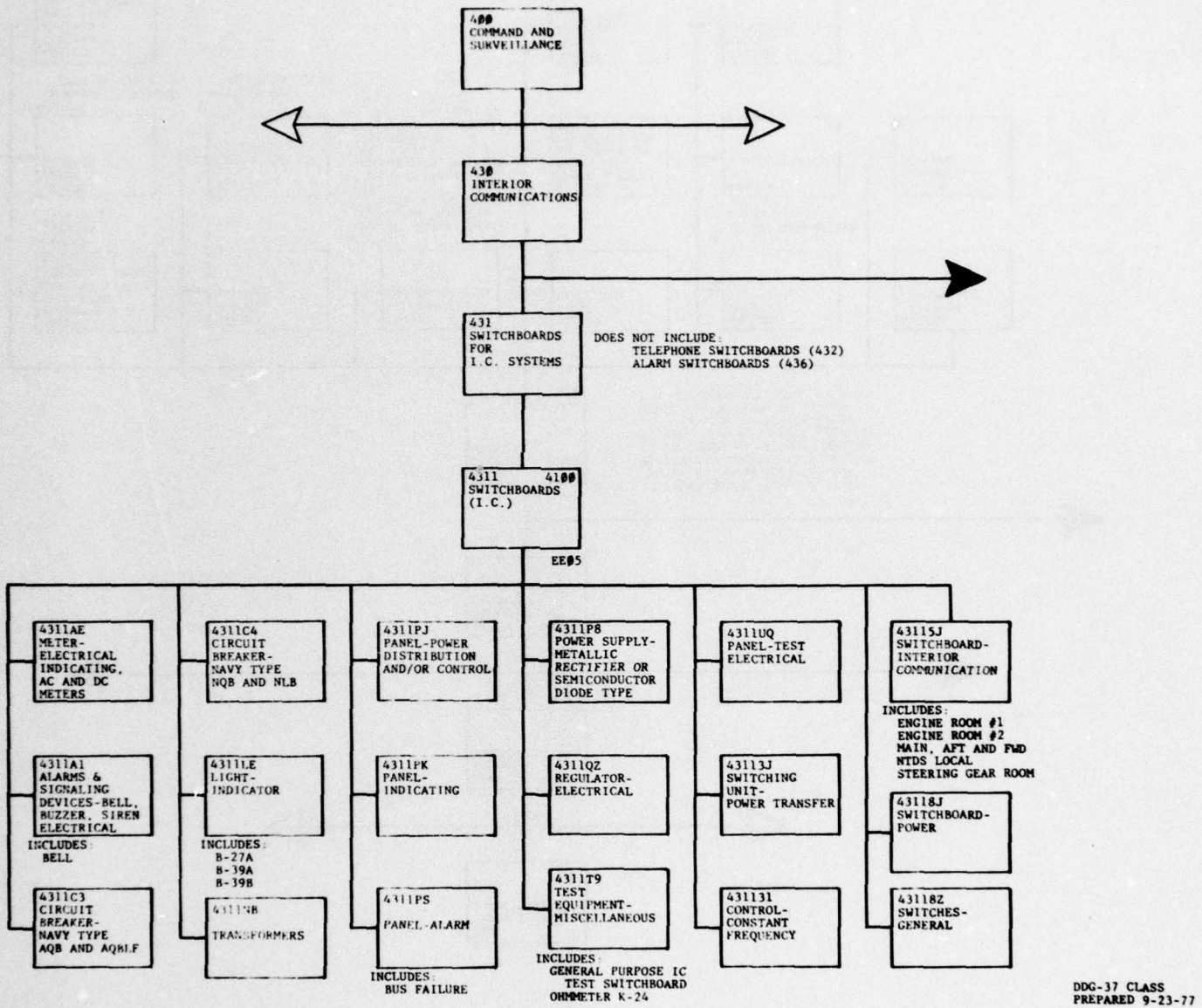
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
420 L000
NAVIGATION SYSTEMS
422
ELECTRICAL NAVIGATION AIDS (INCLUDES NAVIGATIONAL LIGHTS)
423
ELECTRONIC NAVIGATION SYSTEMS, RADIO
424
ELECTRONIC NAVIGATION SYSTEMS, ACOUSTICAL
4221
ELECTRICAL NAVIGATION AIDS
DOES NOT INCLUDE:
FLIGHT DECK LIGHTING (492)
EE01
ON01
4231
ELECTRONIC NAVIGATION SYSTEMS
OI01
ON01
4241 R500
DEPTH SOUNDING EQUIPMENT
ON01
4221FT
FITTINGS-HULL
INCLUDES:
BUSHINGS
KICKPIPES
STUFFING TUBES
4221LF
LIGHT-NAVIGATIONAL MARINE
INCLUDES:
AIRCRAFT WARNING (LK0F)
ASW BEACON (LK0F)
BOAT BOOM LIGHTS
MAN OVERBOARD AND BREAKDOWN (LJ07)
NAVIGATION
AFT ANCHOR LIGHT (LJ04)
BLUE STERN LIGHT (LJ0C)
FORWARD ANCHOR LIGHT (LJ03)
MASTHEAD (LJ05)
RANGELIGHT (LJ08)
SIDELIGHTS (LJ09,LJ0A)
WAKE LIGHT (LJ0H)
WHITE STERN LIGHT (LJ0B)
SPEED LIGHTS (LJ0G)
STEERING LIGHT
TASK LIGHT (LJ0D)
TOWING LIGHTS (LJ01)
4221PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4221PK
PANEL-INDICATING
4221UX
RELAY-ELECTRICAL
4221Y0
HULL FITTINGS, LASHING GEAR AND ACCESS CLOSURES
INCLUDES:
BRACKETS
STRAPS
422117
CONNECTOR-ELECTRICAL
42212B
BOX-ELECTRICAL
422123
CONTROL-NAVIGATIONAL LIGHT
422126
CONTROL-ELECTRIC LIGHT
42218Z
SWITCHES-GENERAL
4231AM
AMPLIFIERS
INCLUDES:
OA-1535/URN-6
OA-7204/URN-20
4231KY
KEYING DEVICES
INCLUDES:
KY-235/URN
4231OE
ANTENNA GROUPS
INCLUDES:
AN/GRA-40
AN/SRA-42
AS-1075/SRN-6
AS-1747( )/URN-20
AT-592/URN-3
4231RV
RECEIVERS
INCLUDES:
LORAN
AN/SPN-38
AN/UPN-12( )
AN/UPN-15
NAVSAT
AN/WRN-5
OMEGA
AN/SRN-12
UHF D/F
AN/URD-4( )
4231RT
RECEIVER & TRANSMITTER
INCLUDES:
AN/SRN-6( )(TACAN)
DDG-37 CLASS
PREPARED 9-23-77
4231TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
AN/GPM-15( )
DA-177( )/U
ID-500(XN-1)/URN-3
OS-54/URN-3
OS-169/URN
RF MONITOR, MX-1627( )/URN-3
SA-420( )/URN-3
SG-121( )/URN-3
TS-890( )/URN-3
TS-891/URN-3
TS-2102/URN
42318Z
SWITCHES-GENERAL
4241HS
HEAD, HAND, AND CHEST SETS
INCLUDES:
CBD-49429
4241RT
RECEIVER & TRANSMITTER
INCLUDES:
AN/UQN-1( )
RT-166/UQN-1
4241TR
TRANSDUCERS
INCLUDES:
AT-200( )/UQN-1
AT-200(XN-4)/UQN-1D

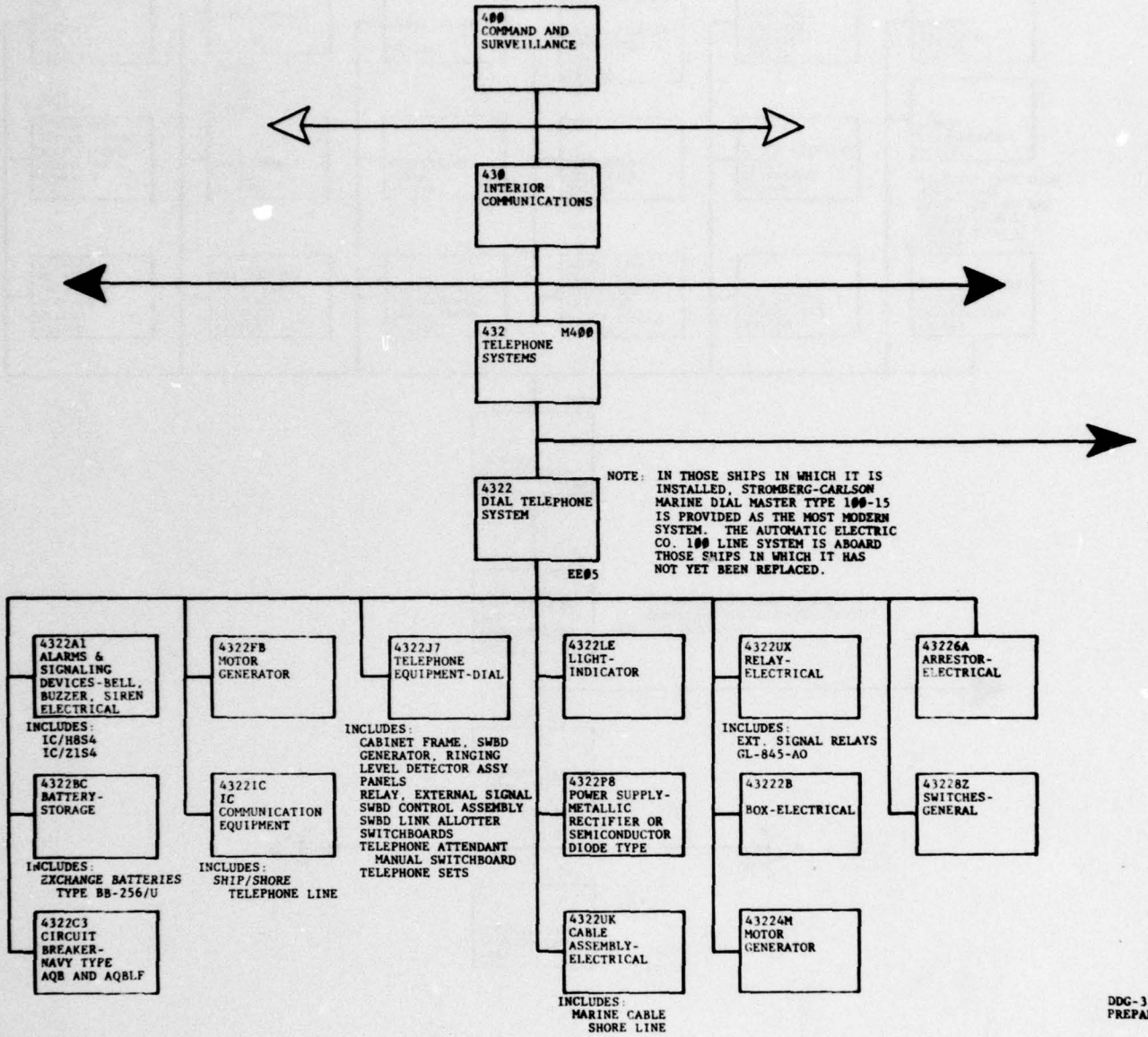

400
COMMAND AND SURVEILLANCE
420 L000
NAVIGATION SYSTEMS
426
ELECTRICAL NAVIGATION SYSTEMS
4261 LB00
GYRO COMPASS SYSTEM
INCLUDES ELEMENTS OF IC CIRCUITS LC AND XLC. SHIPALT EXISTS TO REPLACE MK 19 GYRO COMPASS WITH RUGGEDIZED VERSION.
EE05
ON01
4261A1
ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
INCLUDES: IC/B5DSF4
4261AB
ANNUNCIATOR-MECHANICAL DROP-AC
4261BC
BAITERY-STORAGE
INCLUDES: BB-255/U
4261C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
4261EZ
MOTOR GENERATOR
4261FA
FAN-VANEAXIAL AND/OR TUBEAXIAL
4261FE
FAN-CIRCULATING
4261LE
LIGHT-INDICATOR
4261NB
TRANSFORMERS
4261NN
TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES: SHIP'S COURSE IND:
MK 1 MOD 5
MK 1 MOD 6
MK 1 MOD 8A
MK 2 MOD 6
MK 3 MOD 5
MK 3 MOD 6
MK 6 MOD 1
MK 6 MOD 8
4261PN
PELORUS STAND
INCLUDES: GIMBAL RINGS
4261PS
PANEL-ALARM
INCLUDES: B-51 BUS FAILURE
4261P8
POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
4261UT
PANEL-GYRO OR DEAD RECKONING CONTROL
4261UX
RELAY-ELECTRICAL
42612B
BOX-ELECTRICAL
426126
CONTROL-ELECTRIC LIGHT
42613G
GYRO COMPASS
INCLUDES: MK 19 MOD 3( ) (REPLACEMENT PLANNED) MK 19 MOD 3R
42615G
GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
INCLUDES: MK 27 MOD 7A MK 27 MOD 7I MK 31 MOD 7 MK 31 MOD 7A MK 31 MOD 8 MK 31 MOD 9 MK 41 MOD 7A MK 41 MOD 9A TYPE F
42616G
GYRO COMPASS EQUIPMENT-ALARMS-AUDIBLE & VISIBLE
42617G
GYRO COMPASS EQUIPMENT-CABINET-GYRO & GUID COMP STOR
42618Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77



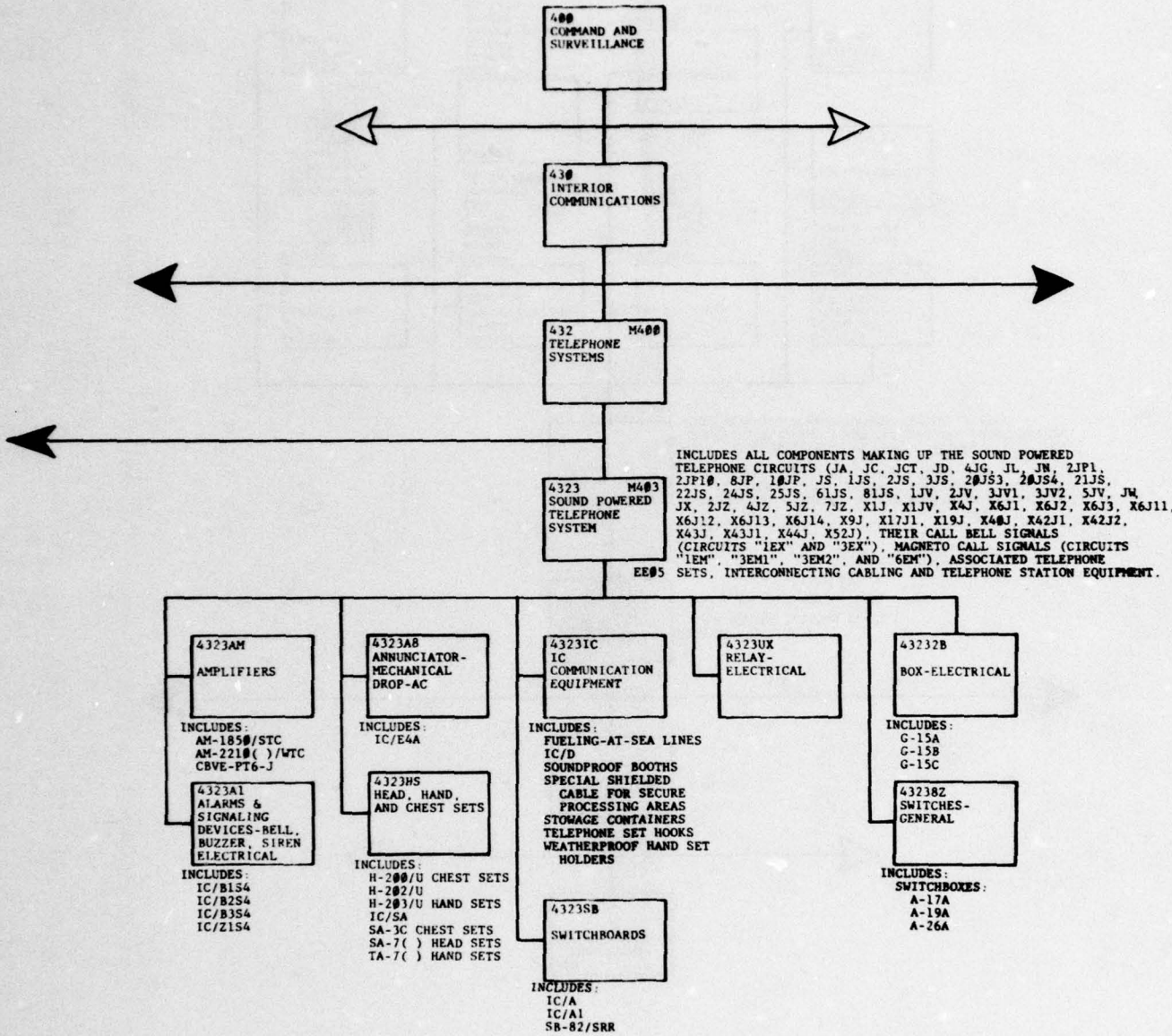
DDG-37 CLASS
PREPARED 11-15-77



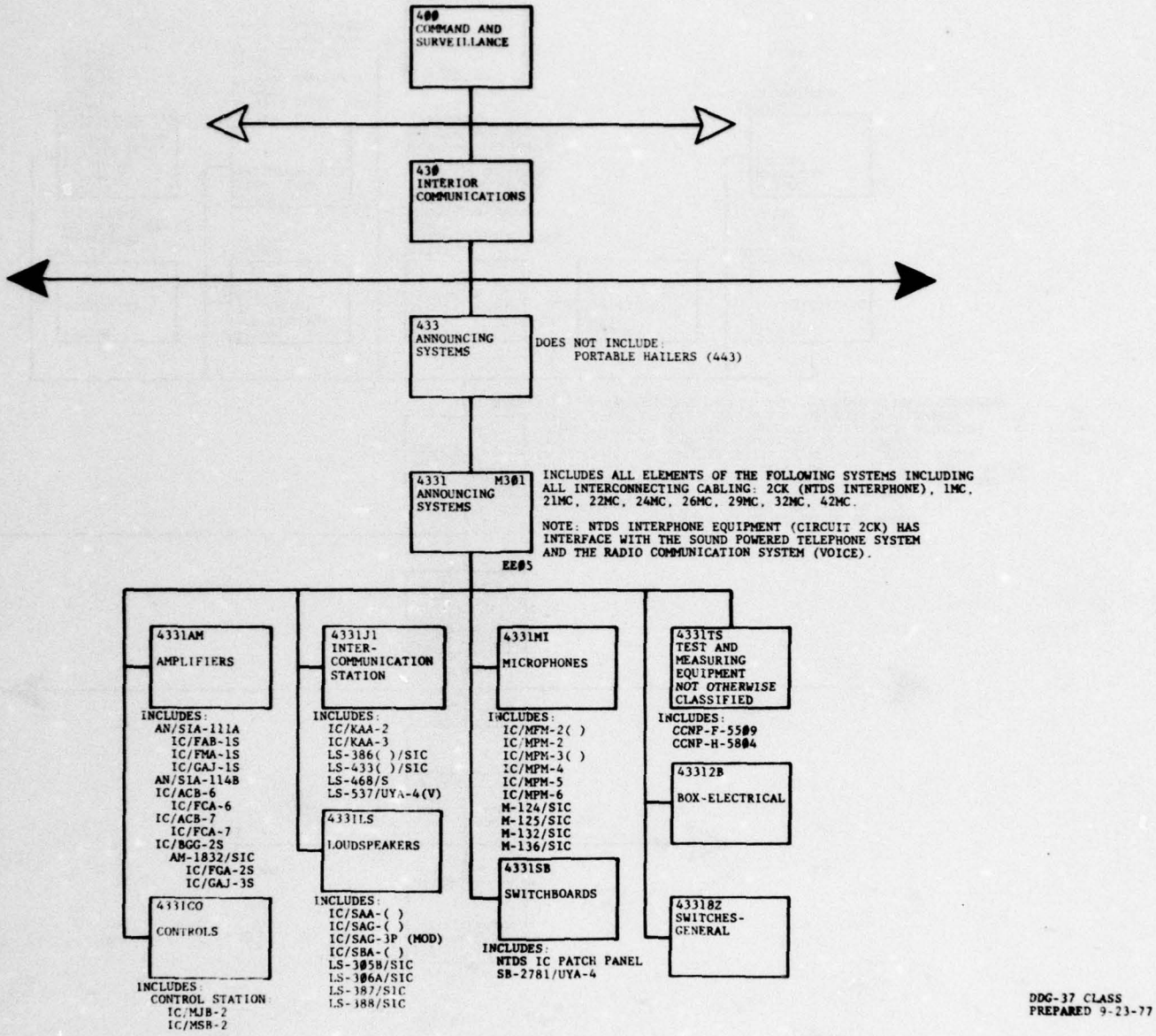
DDG-37 CLASS
PREPARED 9-23-77



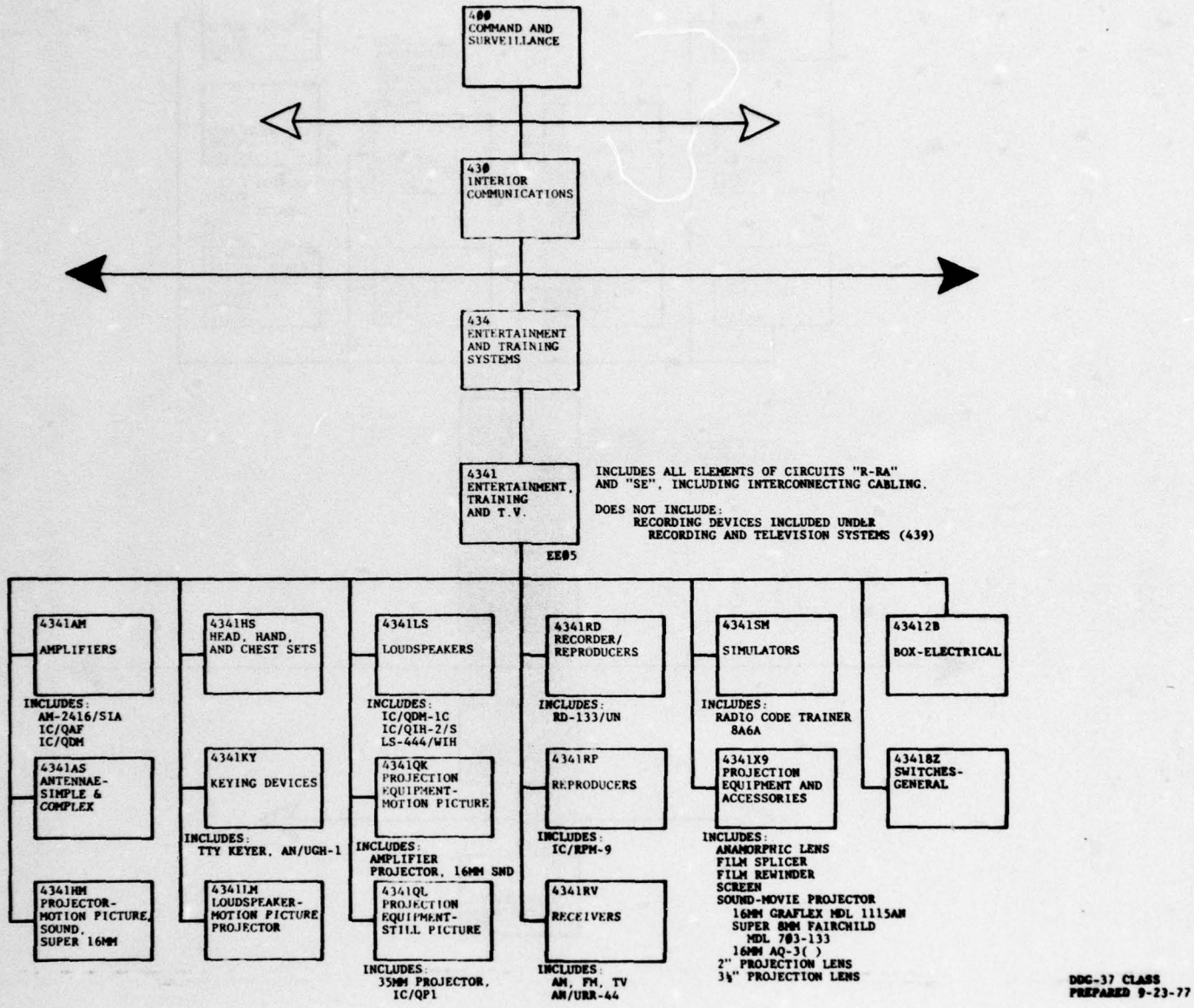
DDG-37 CLASS
PREPARED 11-15-77

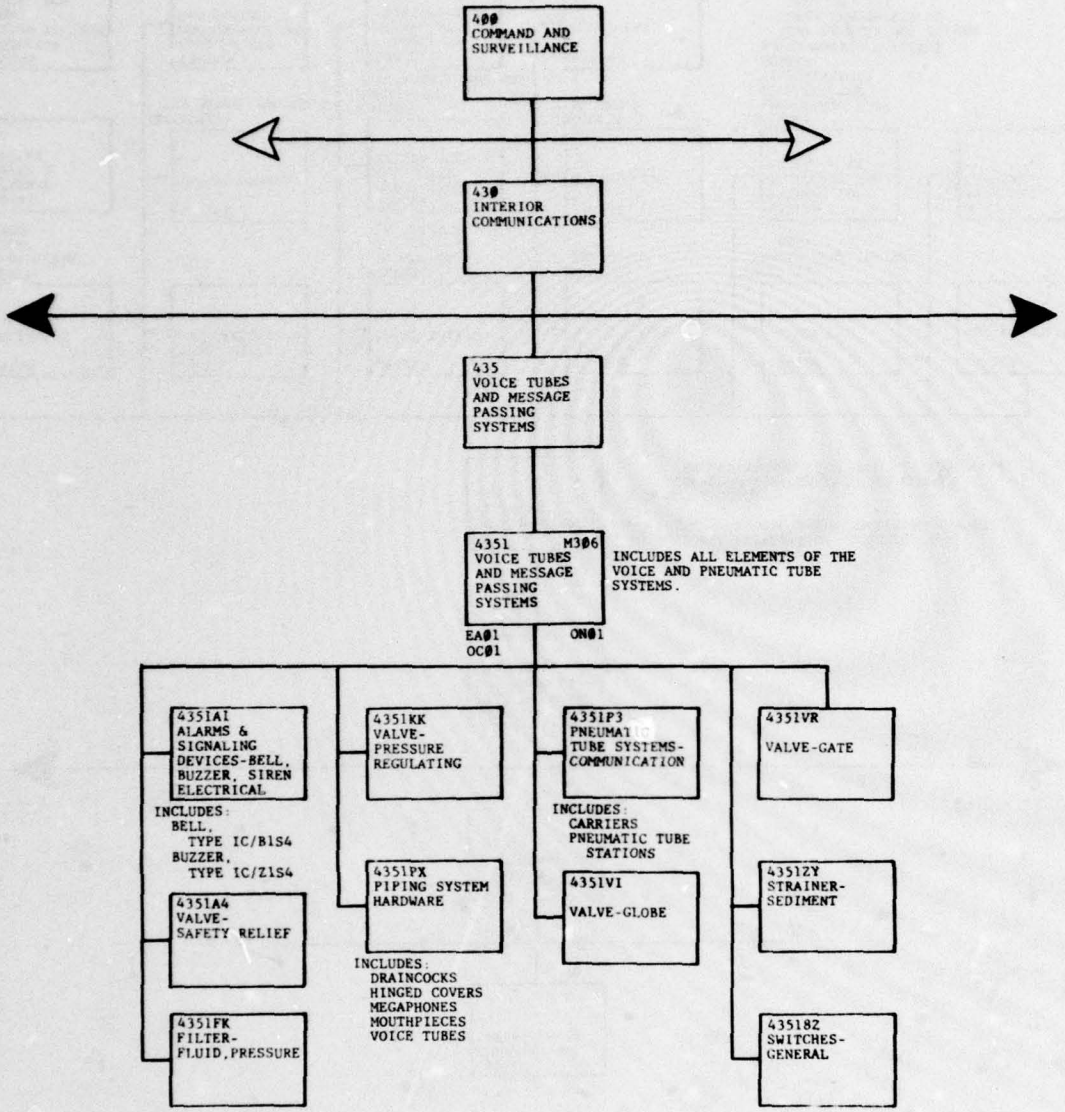


DDG-37 CLASS
PREPARED 11-15-77

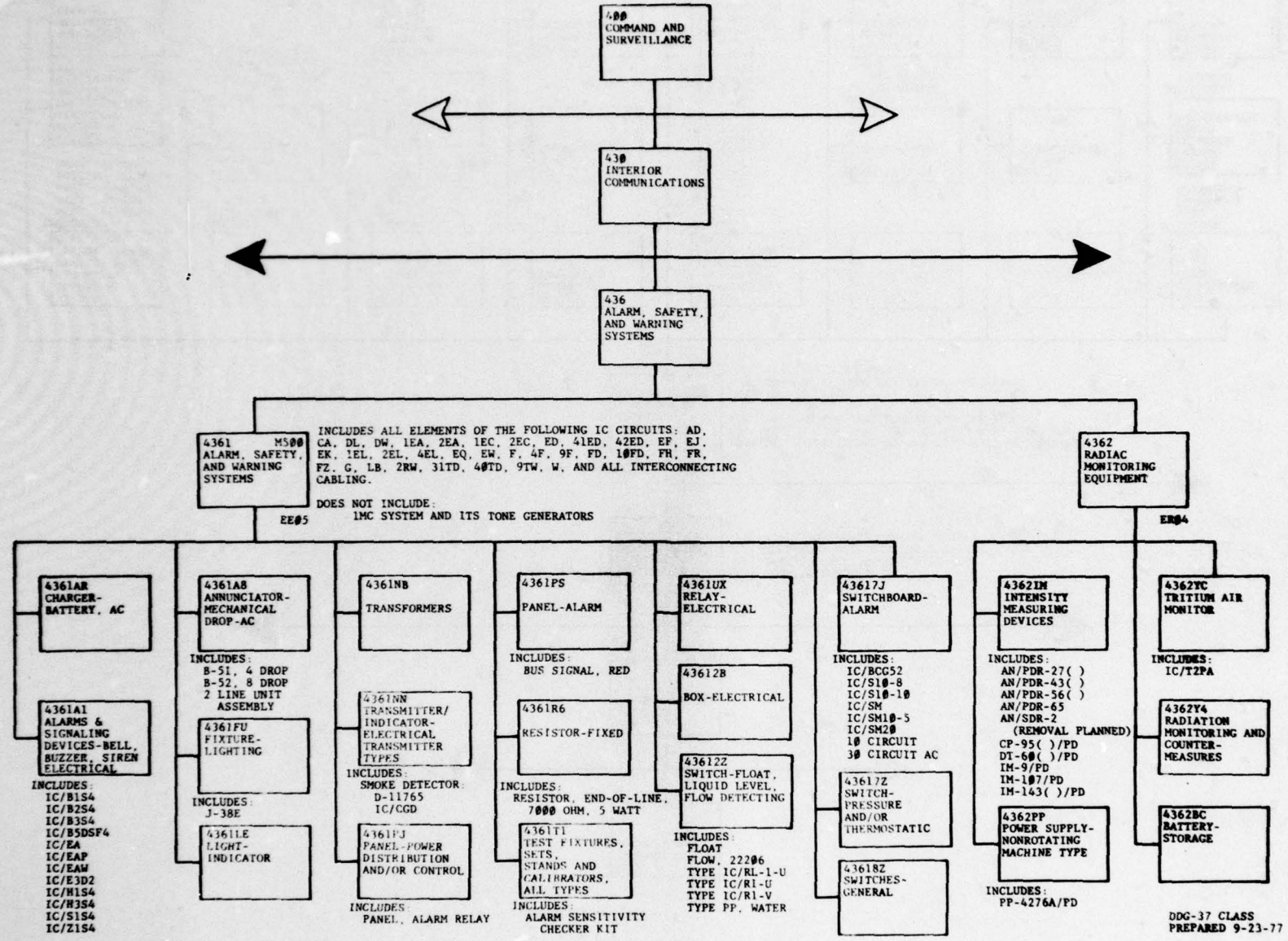


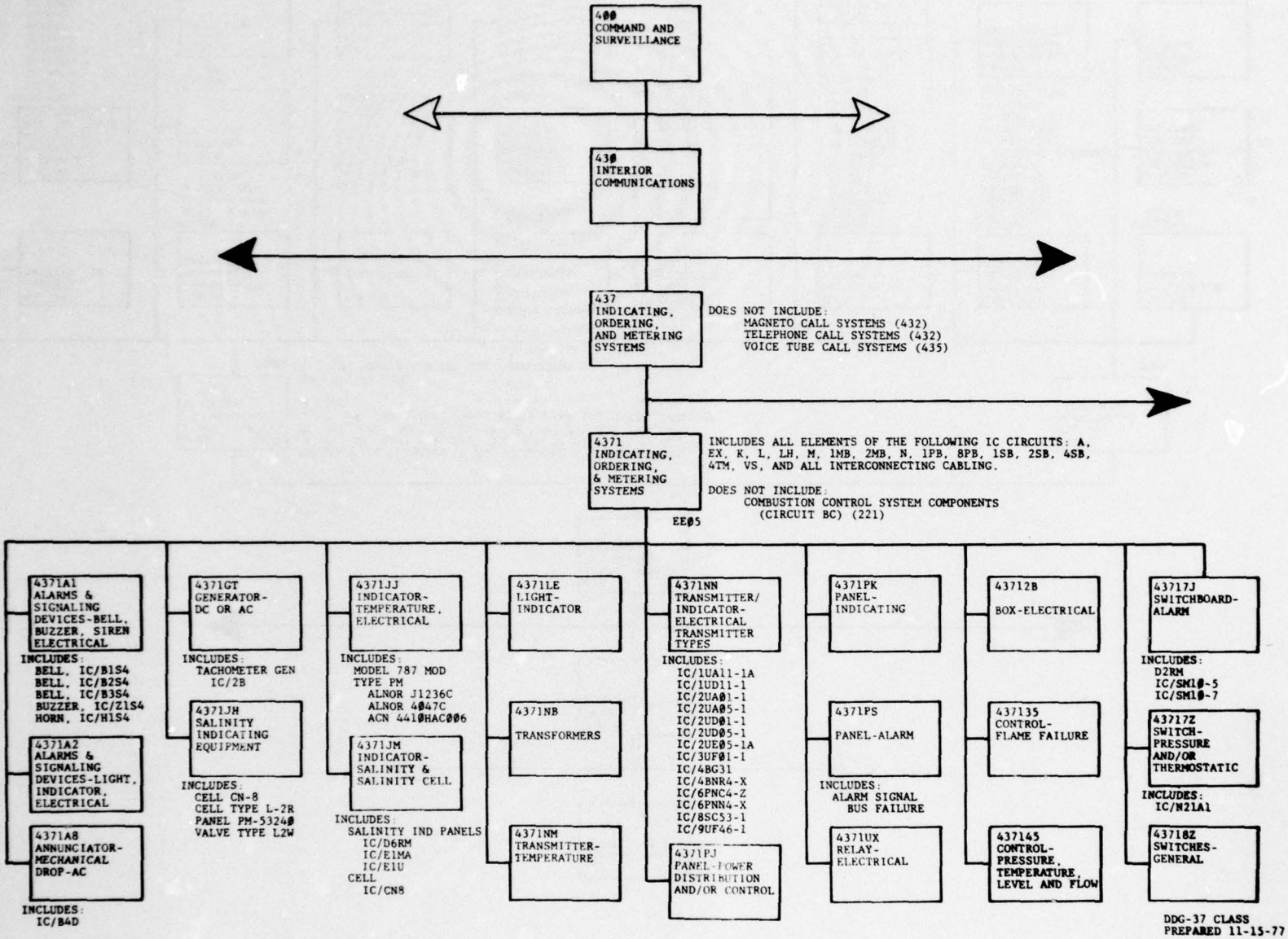
DDG-37 CLASS
PREPARED 9-23-77


400
COMMAND AND SURVEILLANCE
430
INTERIOR COMMUNICATIONS
434
ENTERTAINMENT AND TRAINING SYSTEMS
4341
ENTERTAINMENT, TRAINING AND T.V.
INCLUDES ALL ELEMENTS OF CIRCUITS "R-RA" AND "SE", INCLUDING INTERCONNECTING CABLING.
DOES NOT INCLUDE:
RECORDING DEVICES INCLUDED UNDER RECORDING AND TELEVISION SYSTEMS (439)
EE05
4341AM
AMPLIFIERS
INCLUDES:
AM-2416/SIA
IC/QAF
IC/QDM
4341AS
ANTENNAE-SIMPLE & COMPLEX
4341MM
PROJECTOR-MOTION PICTURE, SOUND, SUPER 16MM
4341HS
HEAD, HAND, AND CHEST SETS
4341KY
KEYING DEVICES
INCLUDES:
TTY KEYER, AN/UGH-1
4341LM
LOUDSPEAKER-MOTION PICTURE PROJECTOR
4341LS
LOUDSPEAKERS
INCLUDES:
IC/QDM-1C
IC/QIH-2/S
LS-444/WIH
4341QK
PROJECTION EQUIPMENT-MOTION PICTURE
INCLUDES:
AMPLIFIER PROJECTOR, 16MM SND
4341QL
PROJECTION EQUIPMENT-STILL PICTURE
INCLUDES:
35MM PROJECTOR, IC/QP1
4341RD
RECORDER/REPRODUCERS
INCLUDES:
RD-133/UN
4341RP
REPRODUCERS
INCLUDES:
IC/RPM-9
4341RV
RECEIVERS
INCLUDES:
AM, FM, TV AN/URR-44
4341SM
SIMULATORS
INCLUDES:
RADIO CODE TRAINER 8A6A
4341X9
PROJECTION EQUIPMENT AND ACCESSORIES
INCLUDES:
ANAMORPHIC LENS
FILM SPLICER
FILM REWINDER
SCREEN
SOUND-MOVIE PROJECTOR
16MM GRAFLEX MDL 1115AN
SUPER 8MM FAIRCHILD MDL 703-133
16MM AQ-3( )
2" PROJECTION LENS
3½" PROJECTION LENS
43412B
BOX-ELECTRICAL
43418Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 9-23-77



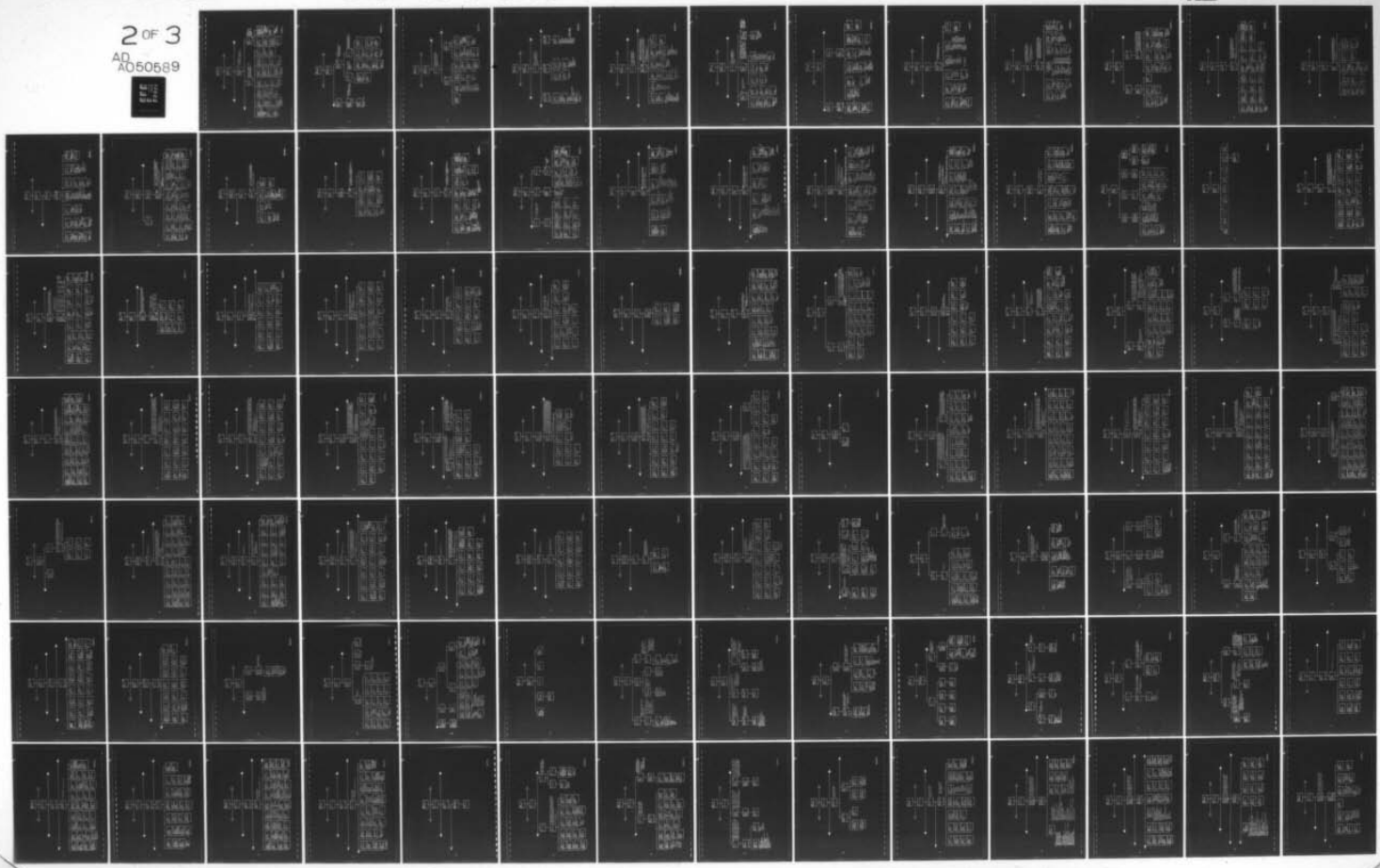
DDG-37 CLASS
PREPARED 9-23-77

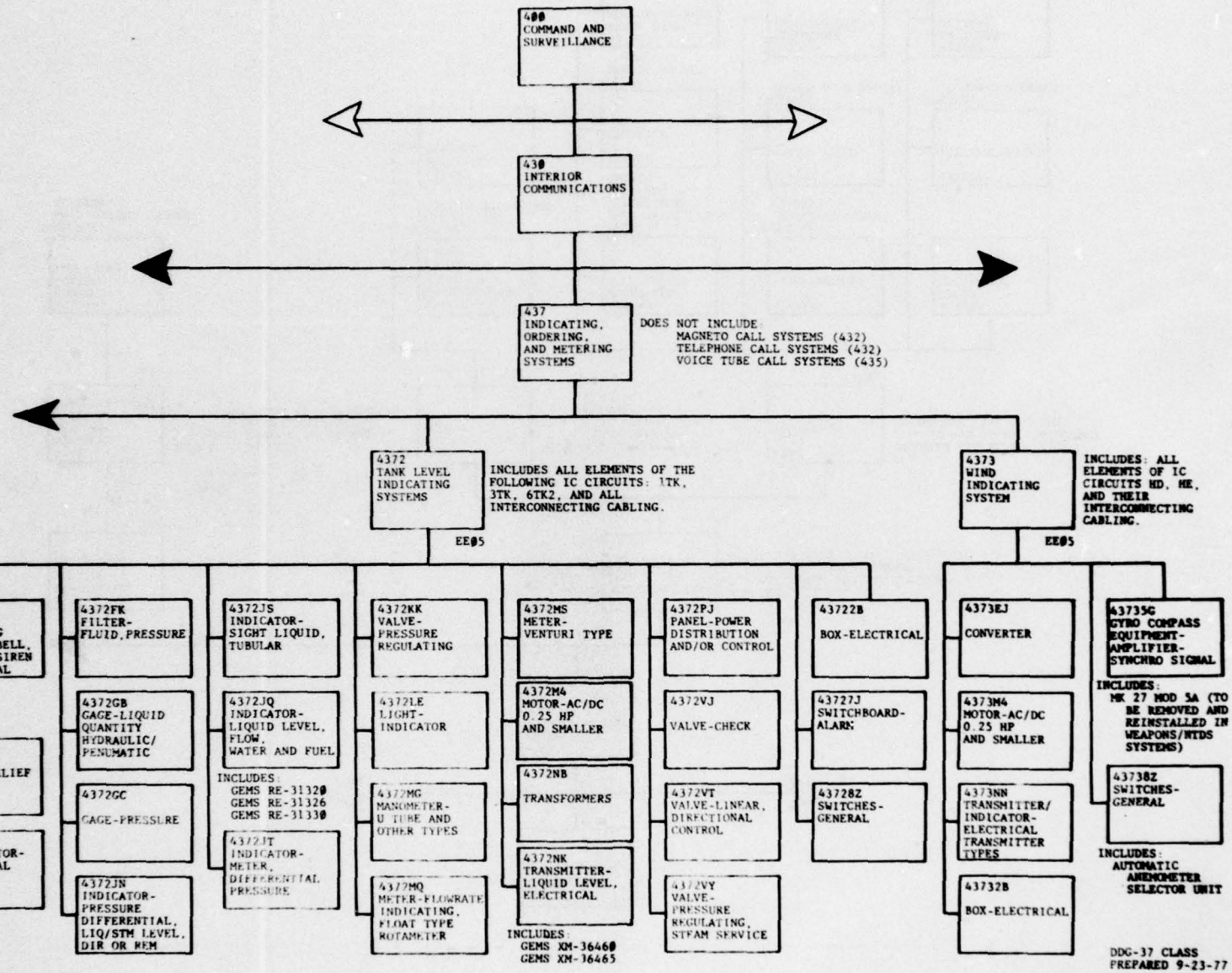

400
COMMAND AND SURVEILLANCE
430
INTERIOR COMMUNICATIONS
436
ALARM, SAFETY, AND WARNING SYSTEMS
4361 M500
ALARM, SAFETY, AND WARNING SYSTEMS
EE05
INCLUDES ALL ELEMENTS OF THE FOLLOWING IC CIRCUITS: AD, CA, DL, DW, 1EA, 2EA, 1EC, 2EC, ED, 41ED, 42ED, EF, EJ, EK, 1EL, 2EL, 4EL, EQ, EW, F, 4F, 9F, FD, 10FD, FH, FR, FZ, G, LB, 2RW, 31TD, 40TD, 9TW, W, AND ALL INTERCONNECTING CABLING.
DOES NOT INCLUDE:
1MC SYSTEM AND ITS TONE GENERATORS
4362 RADIAC MONITORING EQUIPMENT
ER04
4361AR CHARGER-BATTERY, AC
4361A1 ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
INCLUDES:
IC/B1S4
IC/B2S4
IC/B3S4
IC/B5DSF4
IC/EA
IC/EAP
IC/EAW
IC/E3D2
IC/H1S4
IC/H3S4
IC/S1S4
IC/Z1S4
4361A8 ANNUNCIATOR-MECHANICAL DROP-AC
INCLUDES:
B-51, 4 DROP
B-52, 8 DROP
2 LINE UNIT ASSEMBLY
4361FU FIXTURE-LIGHTING
INCLUDES:
J-38E
4361LE LIGHT-INDICATOR
4361NB TRANSFORMERS
4361NN TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES:
SMOKE DETECTOR:
D-11765
IC/CGD
4361PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
PANEL, ALARM RELAY
4361PS PANEL-ALARM
INCLUDES:
BUS SIGNAL, RED
4361R6 RESISTOR-FIXED
INCLUDES:
RESISTOR, END-OF-LINE, 7000 OHM, 5 WATT
4361TI TEST FIXTURES, SETS, STANDS AND CALIBRATORS, ALL TYPES
INCLUDES:
ALARM SENSITIVITY CHECKER KIT
4361UX RELAY-ELECTRICAL
43612B BOX-ELECTRICAL
43612Z SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
INCLUDES:
FLOAT
FLOW, 22206
TYPE IC/RL-1-U
TYPE IC/R1-U
TYPE IC/R1-V
TYPE PP, WATER
43617J SWITCHBOARD-ALARM
INCLUDES:
IC/BCG52
IC/S10-8
IC/S10-10
IC/SM
IC/SM10-5
IC/SM20
10 CIRCUIT
30 CIRCUIT AC
43617Z SWITCH-PRESSURE AND/OR THERMOSTATIC
43618Z SWITCHES-GENERAL
4362IM INTENSITY MEASURING DEVICES
INCLUDES:
AN/PDR-27( )
AN/PDR-43( )
AN/PDR-56( )
AN/PDR-65
AN/SDR-2
(REMOVAL PLANNED)
CP-95( )/PD
DT-60( )/PD
IM-9/PD
IM-107/PD
IM-143( )/PD
4362PP POWER SUPPLY-NONROTATING MACHINE TYPE
INCLUDES:
PP-4276A/PD
4362YC TRITIUM AIR MONITOR
INCLUDES:
IC/T2PA
4362Y4 RADIATION MONITORING AND COUNTER-MEASURES
4362BC BATTERY-STORAGE
DDG-37 CLASS
PREPARED 9-23-77

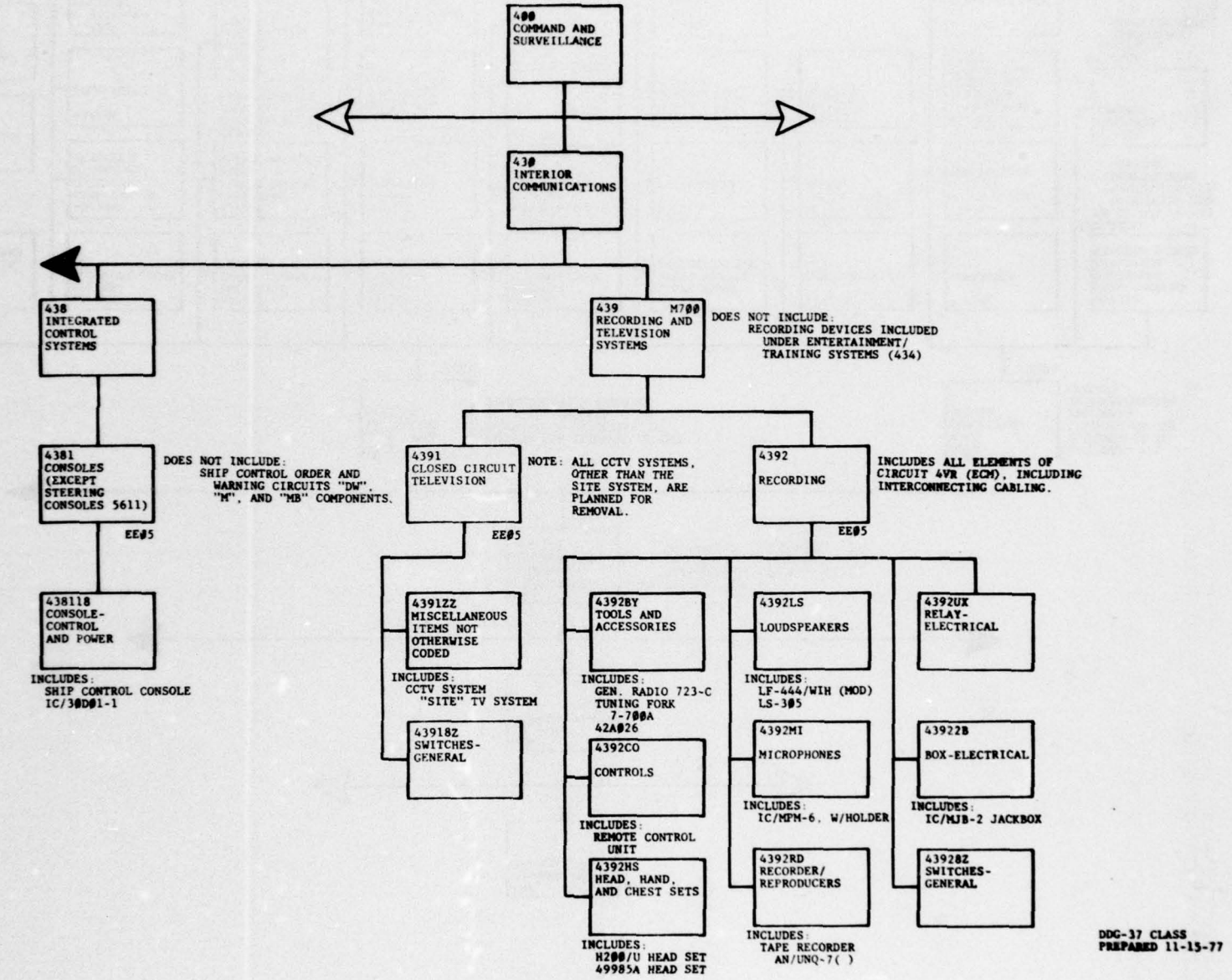

400
COMMAND AND SURVEILLANCE
430
INTERIOR COMMUNICATIONS
437
INDICATING, ORDERING, AND METERING SYSTEMS
DOES NOT INCLUDE:
MAGNETO CALL SYSTEMS (432)
TELEPHONE CALL SYSTEMS (432)
VOICE TUBE CALL SYSTEMS (435)
4371
INDICATING, ORDERING, & METERING SYSTEMS
EE05
INCLUDES ALL ELEMENTS OF THE FOLLOWING IC CIRCUITS: A, EX, K, L, LH, M, 1MB, 2MB, N, 1PB, 8PB, 1SB, 2SB, 4SB, 4TM, VS, AND ALL INTERCONNECTING CABLING.
DOES NOT INCLUDE:
COMBUSTION CONTROL SYSTEM COMPONENTS (CIRCUIT BC) (221)
4371A1
ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
INCLUDES:
BELL, IC/B1S4
BELL, IC/B2S4
BELL, IC/B3S4
BUZZER, IC/Z1S4
HORN, IC/H1S4
4371A2
ALARMS & SIGNALING DEVICES-LIGHT, INDICATOR, ELECTRICAL
4371A8
ANNUNCIATOR-MECHANICAL DROP-AC
INCLUDES:
IC/B4D
4371GT
GENERATOR-DC OR AC
INCLUDES:
TACHOMETER GEN IC/2B
4371JH
SALINITY INDICATING EQUIPMENT
INCLUDES:
CELL CN-8
CELL TYPE L-2R
PANEL PM-5324Ø
VALVE TYPE L2W
4371JJ
INDICATOR-TEMPERATURE, ELECTRICAL
INCLUDES:
MODEL 787 MOD TYPE PM
ALNOR J1236C
ALNOR 4Ø47C
ACN 441ØHAC@@6
4371JM
INDICATOR-SALINITY & SALINITY CELL
INCLUDES:
SALINITY IND PANELS
IC/D6RM
IC/E1MA
IC/E1U
CELL
IC/CN8
4371LE
LIGHT-INDICATOR
4371NB
TRANSFORMERS
4371NM
TRANSMITTER-TEMPERATURE
4371NN
TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES:
IC/1UA11-1A
IC/1UD11-1
IC/2UA@1-1
IC/2UA@5-1
IC/2UD@1-1
IC/2UD@5-1
IC/2UE@5-1A
IC/3UF@1-1
IC/4BG31
IC/4BNR4-X
IC/6PNC4-Z
IC/6PNN4-X
IC/8SC53-1
IC/9UF46-1
4371PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4371PK
PANEL-INDICATING
4371PS
PANEL-ALARM
INCLUDES:
ALARM SIGNAL BUS FAILURE
4371UX
RELAY-ELECTRICAL
43712B
BOX-ELECTRICAL
437135
CONTROL-FLAME FAILURE
437145
CONTROL-PRESSURE, TEMPERATURE, LEVEL AND FLOW
43717J
SWITCHBOARD-ALARM
INCLUDES:
D2RM
IC/SM1@-5
IC/SM1@-7
43717Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
INCLUDES:
IC/N21A1
43718Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

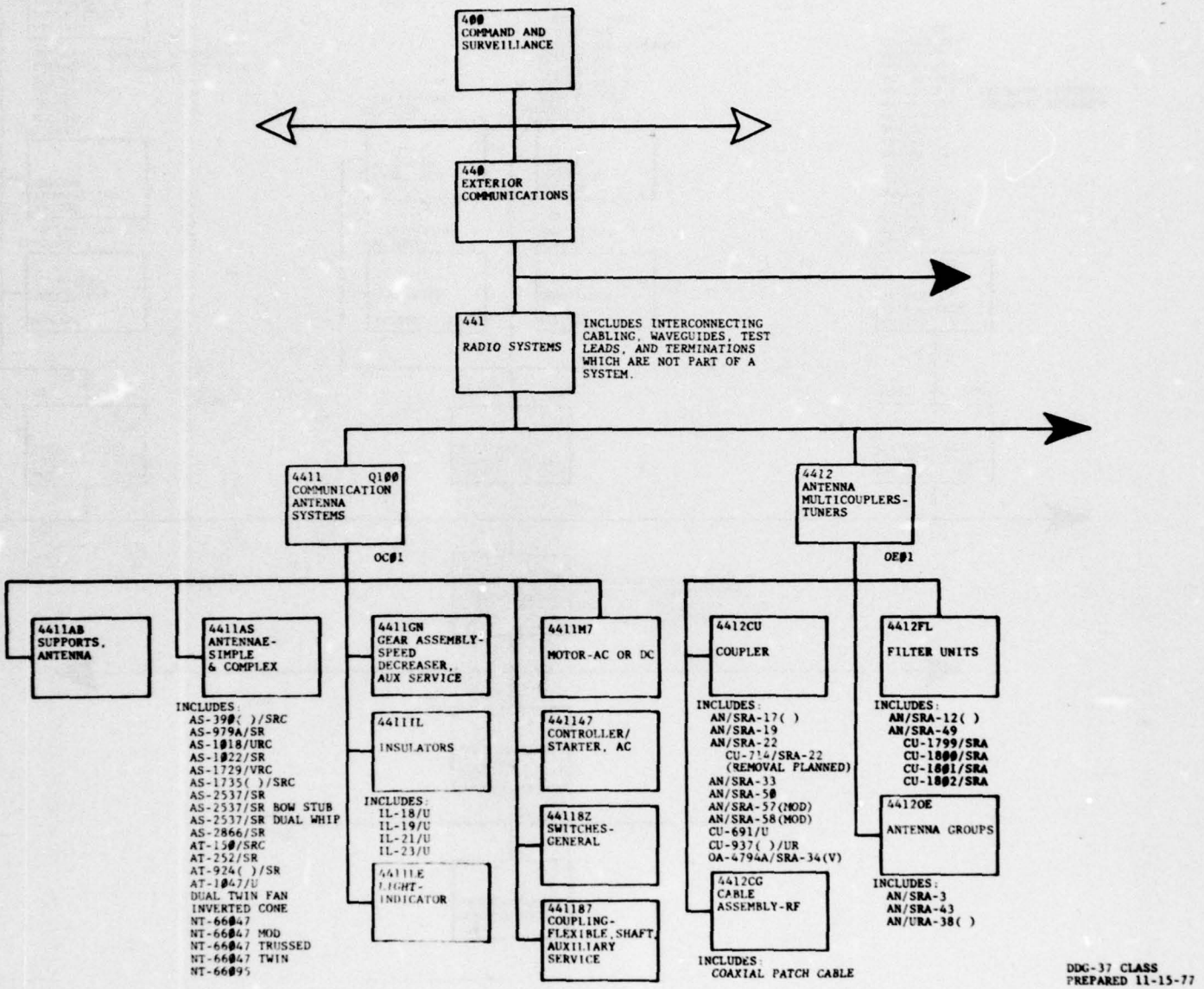
AD-A050 589 ARINC RESEARCH CORP ANNAPOLIS MD F/G 13/10
SHIP SYSTEMS STAGING DIAGRAMS FOR DDG-37 CLASS SHIPS.(U)
DEC 77 N00140-76-D-0813
UNCLASSIFIED 1806-01-1-1690 NL

2 OF 3
AD A050589

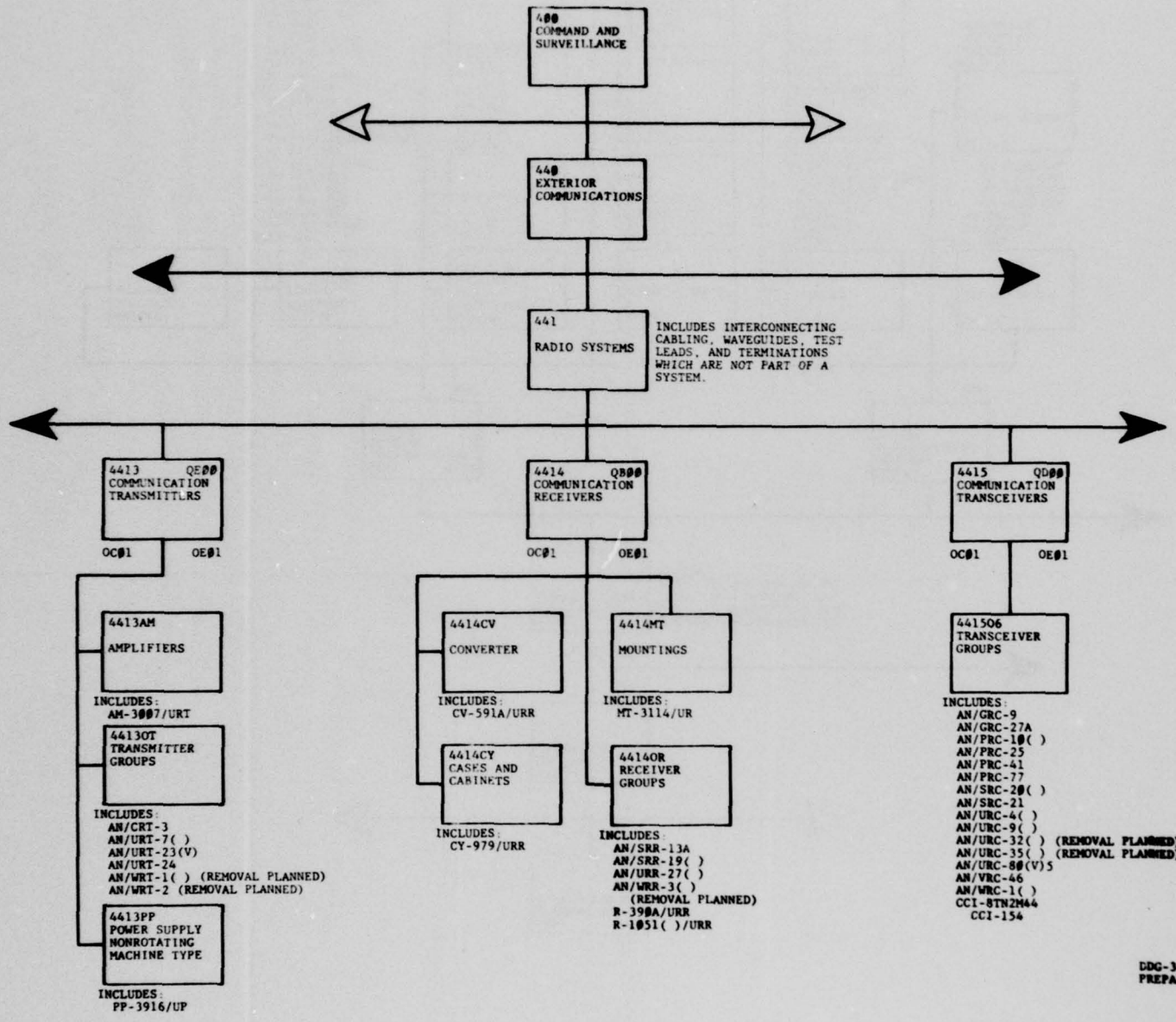


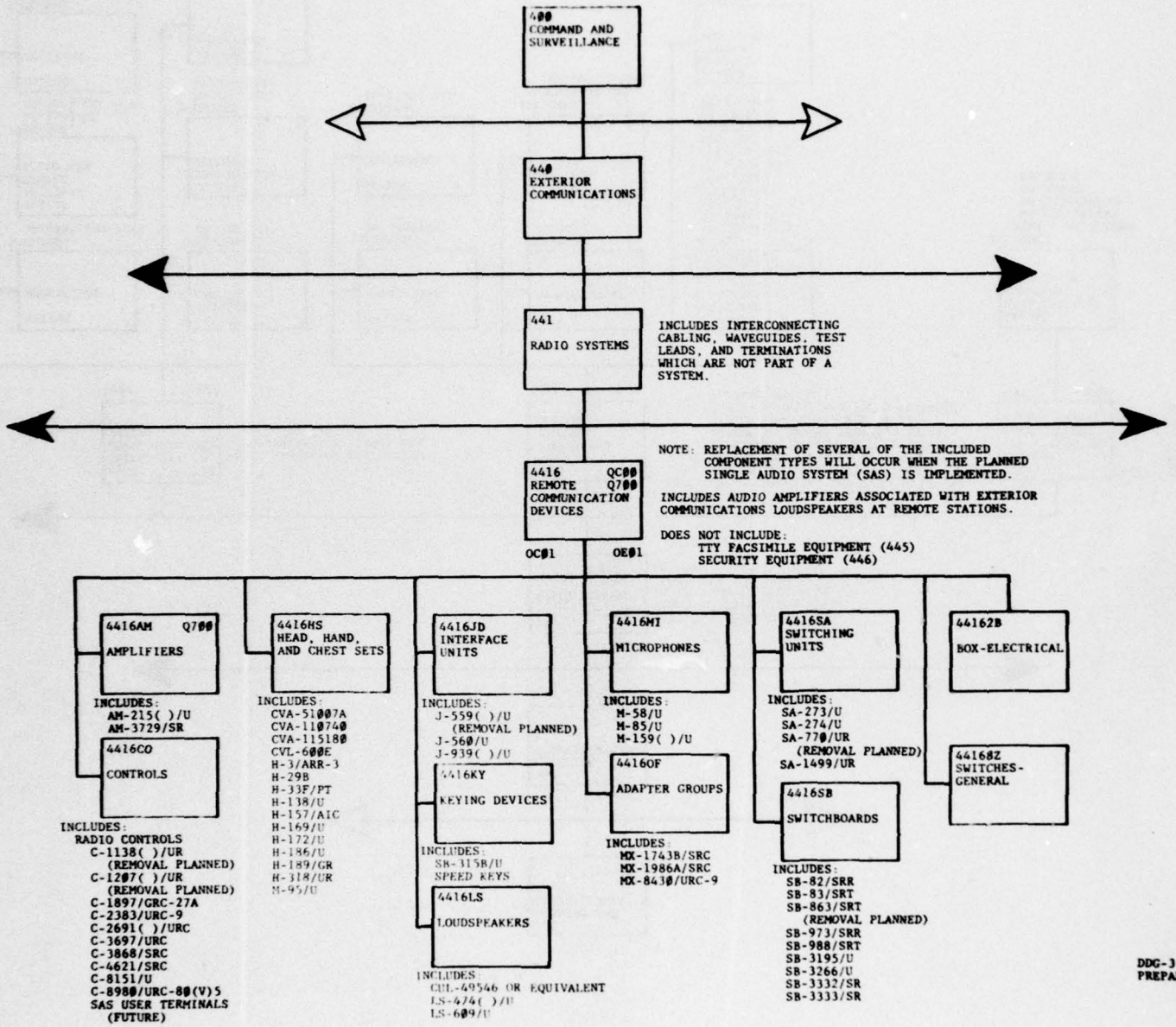

400
COMMAND AND SURVEILLANCE
430
INTERIOR COMMUNICATIONS
437
INDICATING, ORDERING, AND METERING SYSTEMS
DOES NOT INCLUDE:
MAGNETO CALL SYSTEMS (432)
TELEPHONE CALL SYSTEMS (432)
VOICE TUBE CALL SYSTEMS (435)
4372
TANK LEVEL INDICATING SYSTEMS
INCLUDES ALL ELEMENTS OF THE FOLLOWING IC CIRCUITS: 1TK, 3TK, 6TK2, AND ALL INTERCONNECTING CABLING.
EE05
4373
WIND INDICATING SYSTEM
INCLUDES: ALL ELEMENTS OF IC CIRCUITS WD, WE, AND THEIR INTERCONNECTING CABLING.
EE05
4372A1
ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
INCLUDES:
IC/B1S4
IC/B2S4
IC/Z1S4
4372A4
VALVE-SAFETY RELIEF
4372A8
ANNUNCIATOR-MECHANICAL DROP-AC
4372FK
FILTER-FLUID, PRESSURE
4372GB
GAGE-LIQUID QUANTITY HYDRAULIC/PENUMATIC
4372GC
GAGE-PRESSURE
4372JN
INDICATOR-PRESSURE DIFFERENTIAL, LIQ/STM LEVEL, DIR OR REM
4372JS
INDICATOR-SIGHT LIQUID, TUBULAR
4372JQ
INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
INCLUDES:
GEMS RE-31320
GEMS RE-31326
GEMS RE-31330
4372JT
INDICATOR-METER, DIFFERENTIAL PRESSURE
4372KK
VALVE-PRESSURE REGULATING
4372LE
LIGHT-INDICATOR
4372MG
MANOMETER-U TUBE AND OTHER TYPES
4372MQ
METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER
4372MS
METER-VENTURI TYPE
4372M4
MOTOR-AC/DC 0.25 HP AND SMALLER
4372NB
TRANSFORMERS
4372NK
TRANSMITTER-LIQUID LEVEL, ELECTRICAL
INCLUDES:
GEMS XM-36460
GEMS XM-36465
4372PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4372VJ
VALVE-CHECK
4372VT
VALVE-LINEAR, DIRECTIONAL CONTROL
4372VY
VALVE-PRESSURE REGULATING, STEAM SERVICE
43722B
BOX-ELECTRICAL
43727J
SWITCHBOARD-ALARM
43728Z
SWITCHES-GENERAL
4373EJ
CONVERTER
4373M4
MOTOR-AC/DC 0.25 HP AND SMALLER
4373NN
TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
43732B
BOX-ELECTRICAL
43735G
GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
INCLUDES:
MK 27 MOD 5A (TO BE REMOVED AND REINSTALLED IN WEAPONS/NTDS SYSTEMS)
43738Z
SWITCHES-GENERAL
INCLUDES:
AUTOMATIC ANEMOMETER SELECTOR UNIT
DDG-37 CLASS
PREPARED 9-23-77

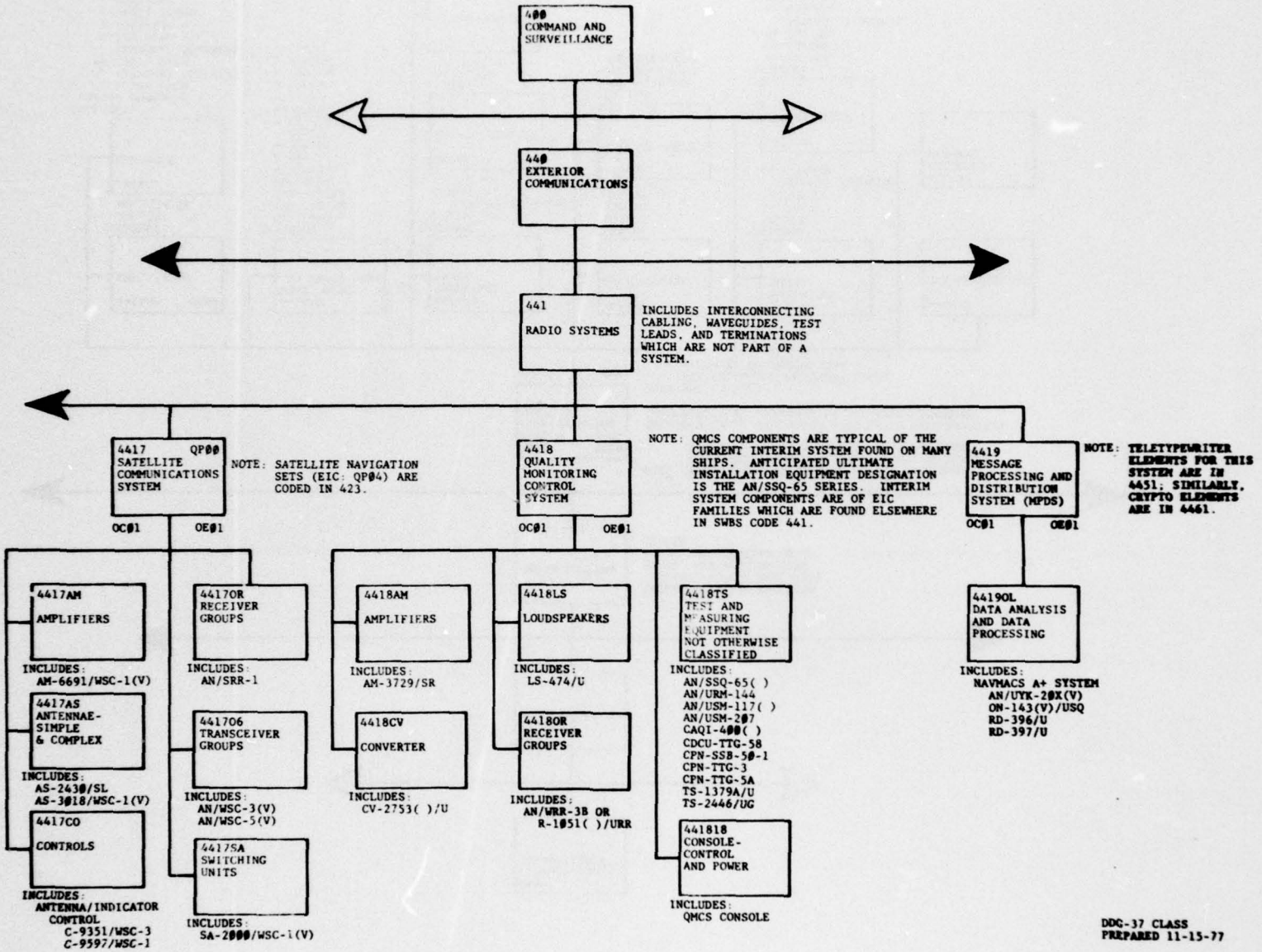

400
COMMAND AND SURVEILLANCE
430
INTERIOR COMMUNICATIONS
438
INTEGRATED CONTROL SYSTEMS
439 M700
RECORDING AND TELEVISION SYSTEMS
DOES NOT INCLUDE:
RECORDING DEVICES INCLUDED UNDER ENTERTAINMENT/ TRAINING SYSTEMS (434)
4381
CONSOLES (EXCEPT STEERING CONSOLES 5611)
EE05
DOES NOT INCLUDE:
SHIP CONTROL ORDER AND WARNING CIRCUITS "DW", "M", AND "MB" COMPONENTS.
438118
CONSOLE-CONTROL AND POWER
INCLUDES:
SHIP CONTROL CONSOLE IC/30D01-1
4391
CLOSED CIRCUIT TELEVISION
EE05
NOTE: ALL CCTV SYSTEMS, OTHER THAN THE SITE SYSTEM, ARE PLANNED FOR REMOVAL.
4391ZZ
MISCELLANEOUS ITEMS NOT OTHERWISE CODED
INCLUDES:
CCTV SYSTEM "SITE" TV SYSTEM
43918Z
SWITCHES-GENERAL
4392
RECORDING
EE05
INCLUDES ALL ELEMENTS OF CIRCUIT 4VR (ECM), INCLUDING INTERCONNECTING CABLING.
4392BY
TOOLS AND ACCESSORIES
INCLUDES:
GEN. RADIO 723-C TUNING FORK
7-700A
42A026
4392CO
CONTROLS
INCLUDES:
REMOTE CONTROL UNIT
4392HS
HEAD, HAND, AND CHEST SETS
INCLUDES:
H200/U HEAD SET
49985A HEAD SET
4392LS
LOUDSPEAKERS
INCLUDES:
LF-444/WIH (MOD) LS-305
4392MI
MICROPHONES
INCLUDES:
IC/MPM-6, W/HOLDER
4392RD
RECORDER/ REPRODUCERS
INCLUDES:
TAPE RECORDER AN/UNQ-7( )
4392UX
RELAY-ELECTRICAL
43922B
BOX-ELECTRICAL
INCLUDES:
IC/MJB-2 JACKBOX
43928Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

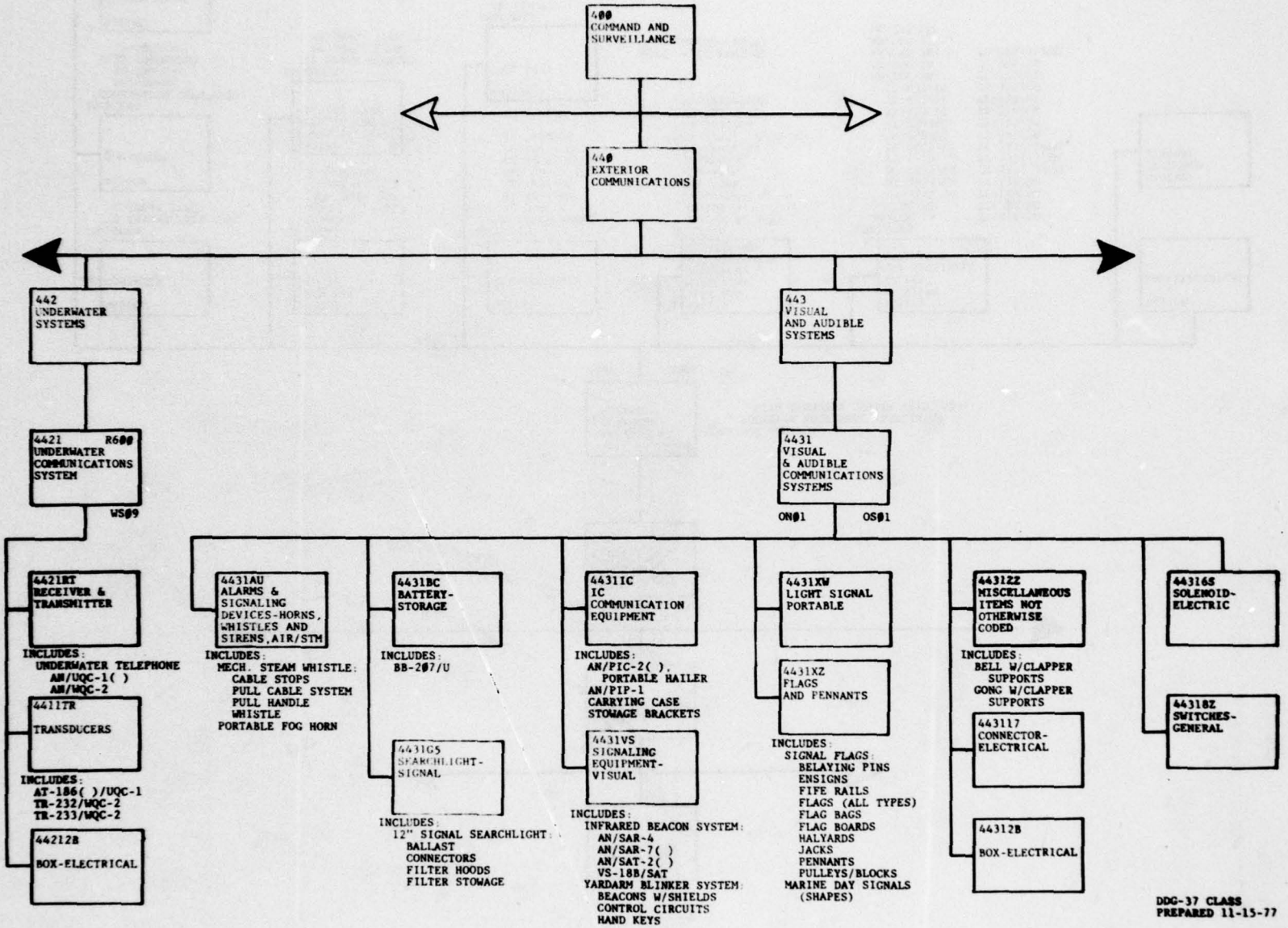


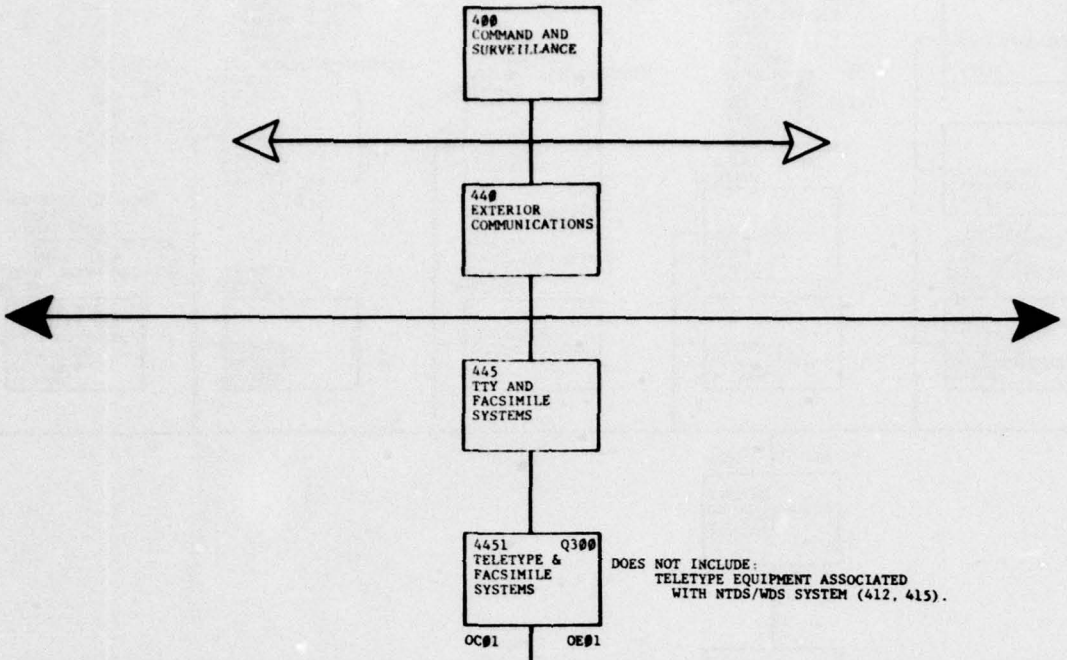
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
440
EXTERIOR COMMUNICATIONS
441
RADIO SYSTEMS
INCLUDES INTERCONNECTING CABLING, WAVEGUIDES, TEST LEADS, AND TERMINATIONS WHICH ARE NOT PART OF A SYSTEM.
4413 QE00
COMMUNICATION TRANSMITTLRS
OC01
OE01
4413AM
AMPLIFIERS
INCLUDES:
AM-3007/URT
4413OT
TRANSMITTER GROUPS
INCLUDES:
AN/CRT-3
AN/URT-7( )
AN/URT-23(V)
AN/URT-24
AN/WRT-1( ) (REMOVAL PLANNED)
AN/WRT-2 (REMOVAL PLANNED)
4413PP
POWER SUPPLY NONROTATING MACHINE TYPE
INCLUDES:
PP-3916/UP
4414 QB00
COMMUNICATION RECEIVERS
OC01
OE01
4414CV
CONVERTER
INCLUDES:
CV-591A/URR
4414CY
CASES AND CABINETS
INCLUDES:
CY-979/URR
4414MT
MOUNTINGS
INCLUDES:
MT-3114/UR
4414OR
RECEIVER GROUPS
INCLUDES:
AN/SRR-13A
AN/SRR-19( )
AN/URR-27( )
AN/WRR-3( )
(REMOVAL PLANNED)
R-390A/URR
R-1051( )/URR
4415 QD00
COMMUNICATION TRANSCEIVERS
OC01
OE01
441506
TRANSCEIVER GROUPS
INCLUDES:
AN/GRC-9
AN/GRC-27A
AN/PRC-10( )
AN/PRC-25
AN/PRC-41
AN/PRC-77
AN/SRC-20( )
AN/SRC-21
AN/URC-4( )
AN/URC-9( )
AN/URC-32( ) (REMOVAL PLANNED)
AN/URC-35( ) (REMOVAL PLANNED)
AN/URC-80(V)5
AN/VRC-46
AN/WRC-1( )
CCI-8TN2M44
CCI-154
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
440
EXTERIOR COMMUNICATIONS
441
RADIO SYSTEMS
INCLUDES INTERCONNECTING CABLING, WAVEGUIDES, TEST LEADS, AND TERMINATIONS WHICH ARE NOT PART OF A SYSTEM.
4416 QC00 Q700
REMOTE COMMUNICATION DEVICES
NOTE: REPLACEMENT OF SEVERAL OF THE INCLUDED COMPONENT TYPES WILL OCCUR WHEN THE PLANNED SINGLE AUDIO SYSTEM (SAS) IS IMPLEMENTED.
INCLUDES AUDIO AMPLIFIERS ASSOCIATED WITH EXTERIOR COMMUNICATIONS LOUDSPEAKERS AT REMOTE STATIONS.
DOES NOT INCLUDE:
TTY FACSIMILE EQUIPMENT (445)
SECURITY EQUIPMENT (446)
OC01
OE01
4416AM Q700
AMPLIFIERS
INCLUDES:
AM-215( )/U
AM-3729/SR
4416CO
CONTROLS
INCLUDES:
RADIO CONTROLS
C-1138( )/UR
(REMOVAL PLANNED)
C-1207( )/UR
(REMOVAL PLANNED)
C-1897/GRC-27A
C-2383/URC-9
C-2691( )/URC
C-3697/URC
C-3868/SRC
C-4621/SRC
C-8151/U
C-8980/URC-80(V)5
SAS USER TERMINALS
(FUTURE)
4416HS
HEAD, HAND, AND CHEST SETS
INCLUDES:
CVA-51007A
CVA-110740
CVA-115180
CVL-6006E
H-3/ARR-3
H-29B
H-33F/PT
H-138/U
H-157/AIC
H-169/U
H-172/U
H-186/U
H-189/GR
H-318/UR
M-95/U
4416JD
INTERFACE UNITS
INCLUDES:
J-559( )/U
(REMOVAL PLANNED)
J-560/U
J-939( )/U
4416KY
KEYING DEVICES
INCLUDES:
SB-315B/U
SPEED KEYS
4416LS
LOUDSPEAKERS
INCLUDES:
CUL-49546 OR EQUIVALENT
LS-474( )/U
LS-609/U
4416MI
MICROPHONES
INCLUDES:
M-58/U
M-85/U
M-159( )/U
4416OF
ADAPTER GROUPS
INCLUDES:
MX-1743B/SRC
MX-1986A/SRC
MX-8430/URC-9
4416SA
SWITCHING UNITS
INCLUDES:
SA-273/U
SA-274/U
SA-770/UR
(REMOVAL PLANNED)
SA-1499/UR
4416SB
SWITCHBOARDS
INCLUDES:
SB-82/SRR
SB-83/SRT
SB-863/SRT
(REMOVAL PLANNED)
SB-973/SRR
SB-988/SRT
SB-3195/U
SB-3266/U
SB-3332/SR
SB-3333/SR
44162B
BOX-ELECTRICAL
44168Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
440
EXTERIOR COMMUNICATIONS
441
RADIO SYSTEMS
INCLUDES INTERCONNECTING CABLING, WAVEGUIDES, TEST LEADS, AND TERMINATIONS WHICH ARE NOT PART OF A SYSTEM.
4417 QP00
SATELLITE COMMUNICATIONS SYSTEM
NOTE: SATELLITE NAVIGATION SETS (EIC: QP04) ARE CODED IN 423.
OC01
OE01
4417AM
AMPLIFIERS
INCLUDES:
AM-6691/WSC-1(V)
4417AS
ANTENNAE-SIMPLE & COMPLEX
INCLUDES:
AS-2430/SL
AS-3018/WSC-1(V)
4417CO
CONTROLS
INCLUDES:
ANTENNA/INDICATOR CONTROL
C-9351/WSC-3
C-9597/WSC-1
4417OR
RECEIVER GROUPS
INCLUDES:
AN/SRR-1
441706
TRANSCEIVER GROUPS
INCLUDES:
AN/WSC-3(V)
AN/WSC-5(V)
4417SA
SWITCHING UNITS
INCLUDES:
SA-2000/WSC-1(V)
4418
QUALITY MONITORING CONTROL SYSTEM
NOTE: QMCS COMPONENTS ARE TYPICAL OF THE CURRENT INTERIM SYSTEM FOUND ON MANY SHIPS. ANTICIPATED ULTIMATE INSTALLATION EQUIPMENT DESIGNATION IS THE AN/SSQ-65 SERIES. INTERIM SYSTEM COMPONENTS ARE OF EIC FAMILIES WHICH ARE FOUND ELSEWHERE IN SWBS CODE 441.
OC01
OE01
4418AM
AMPLIFIERS
INCLUDES:
AM-3729/SR
4418CV
CONVERTER
INCLUDES:
CV-2753( )/U
4418LS
LOUDSPEAKERS
INCLUDES:
LS-474/U
4418OR
RECEIVER GROUPS
INCLUDES:
AN/WRR-3B OR
R-1051( )/URR
4418TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
AN/SSQ-65( )
AN/URM-144
AN/USM-117( )
AN/USM-207
CAQI-400( )
CDCU-TTG-58
CPN-SSB-50-1
CPN-TTG-3
CPN-TTG-5A
TS-1379A/U
TS-2446/UG
441818
CONSOLE-CONTROL AND POWER
INCLUDES:
QMCS CONSOLE
4419
MESSAGE PROCESSING AND DISTRIBUTION SYSTEM (MPDS)
NOTE: TELETYPEWRITER ELEMENTS FOR THIS SYSTEM ARE IN 4451; SIMILARLY, CRYPTO ELEMENTS ARE IN 4461.
OC01
OE01
44190L
DATA ANALYSIS AND DATA PROCESSING
INCLUDES:
NAVMACS A+ SYSTEM
AN/UYK-20X(V)
ON-143(V)/USQ
RD-396/U
RD-397/U
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
440
EXTERIOR COMMUNICATIONS
442
UNDERWATER SYSTEMS
443
VISUAL AND AUDIBLE SYSTEMS
4421 R600
UNDERWATER COMMUNICATIONS SYSTEM
WS09
4431
VISUAL & AUDIBLE COMMUNICATIONS SYSTEMS
ON01
OS01
4421RT
RECEIVER & TRANSMITTER
INCLUDES:
UNDERWATER TELEPHONE AN/UQC-1( )
AN/WQC-2
4411TR
TRANSDUCERS
INCLUDES:
AT-186( )/UQC-1
TR-232/WQC-2
TR-233/WQC-2
44212B
BOX-ELECTRICAL
4431AU
ALARMS & SIGNALING DEVICES-HORNS, WHISTLES AND SIRENS, AIR/STM
INCLUDES:
MECH. STEAM WHISTLE:
CABLE STOPS
PULL CABLE SYSTEM
PULL HANDLE
WHISTLE
PORTABLE FOG HORN
4431BC
BATTERY-STORAGE
INCLUDES:
BB-207/U
4431GS
SEARCHLIGHT-SIGNAL
INCLUDES:
12" SIGNAL SEARCHLIGHT:
BALLAST
CONNECTORS
FILTER HOODS
FILTER STOWAGE
4431IC
IC COMMUNICATION EQUIPMENT
INCLUDES:
AN/PIC-2( ),
PORTABLE HAILER
AN/PIP-1
CARRYING CASE
STOWAGE BRACKETS
4431VS
SIGNALING EQUIPMENT-VISUAL
INCLUDES:
INFRARED BEACON SYSTEM:
AN/SAR-4
AN/SAR-7( )
AN/SAT-2( )
VS-188/SAT
YARDARM BLINKER SYSTEM:
BEACONS W/SHIELDS
CONTROL CIRCUITS
HAND KEYS
4431XW
LIGHT SIGNAL PORTABLE
4431XZ
FLAGS AND PENNANTS
INCLUDES:
SIGNAL FLAGS:
BELAYING PINS
ENSIGNS
FIFE RAILS
FLAGS (ALL TYPES)
FLAG BAGS
FLAG BOARDS
HALYARDS
JACKS
PENNANTS
PULLEYS/BLOCKS
MARINE DAY SIGNALS
(SHAPES)
44312Z
MISCELLANEOUS ITEMS NOT OTHERWISE CODED
INCLUDES:
BELL W/CLAPPER SUPPORTS
GONG W/CLAPPER SUPPORTS
443117
CONNECTOR-ELECTRICAL
44312B
BOX-ELECTRICAL
44316S
SOLENOID-ELECTRIC
44318Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77



DOES NOT INCLUDE:
TELETYPE EQUIPMENT ASSOCIATED WITH NTDS/WDS SYSTEM (412, 415).

4451CO CONTROLS

INCLUDES:
TTY TRANSMITTER CONT. C-1004( )/SG

4451CV CONVERTER

INCLUDES:
COMPARATOR CONVERTER:
AN/URA-8( )
AN/URA-17( )
GARD CONVERTER CV-3022/UG

4451FL FILTER UNITS

4451OW TERMINAL GROUPS

INCLUDES:
AN/SGC-1( )
AN/UCC-1( )-R19
CV-1920( )(P)/UCC-1C(V)( )
CV-2460/SGC

4451PP POWER SUPPLY-NONROTATING MACHINE TYPE

INCLUDES:
TTY POWER SUPPLY:
PP-3494( )/UG
PP-3495( )/UG

4451SB SWITCHBOARDS

INCLUDES:
TTY PATCH PANEL:
SB-959/UG
SB-973/SRR
SB-1061/UG
SB-1203( )/UG
SB-1210( )/UG
SB-2611/UG
SB-2680/UG

4451TK TOOL KITS

INCLUDES:
TK-188/UG

4451TS TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED

INCLUDES:
AN/UGM-8( )(V)
AN/UGM-9
CBUW-TDA-2
CSI-4500
CSI-4514
TS-658/UG
TS-1060A/GG
* TS-2232( )/UCC-1C( )
TS-2446/UG
TS-2616/UGM
TS-3069A/USM

NOTE: * IS PART OF AN/UCC-1C(V).

4451TT TELETYPE WRITER AND FACSIMILE APPARATUS

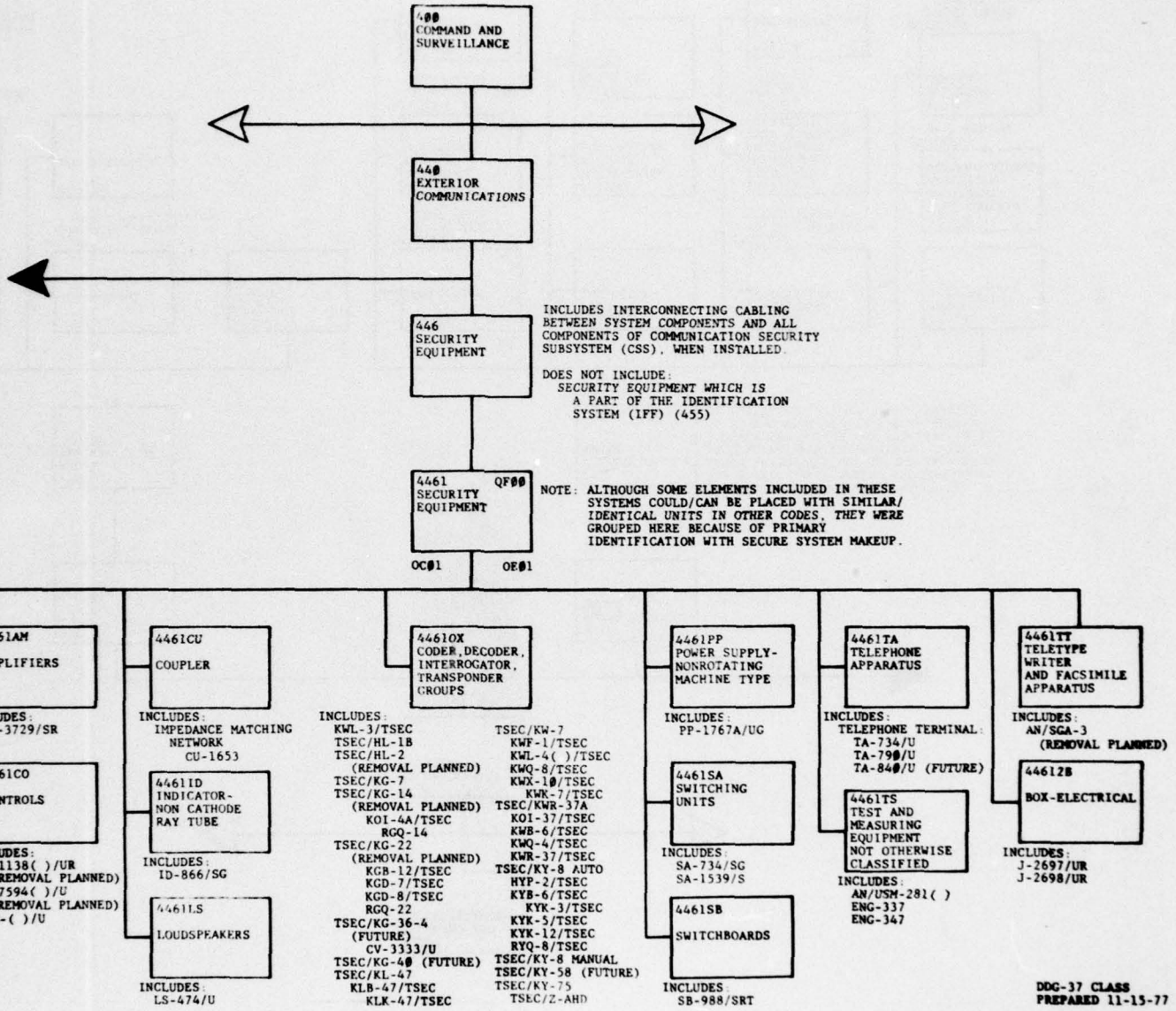
INCLUDES:

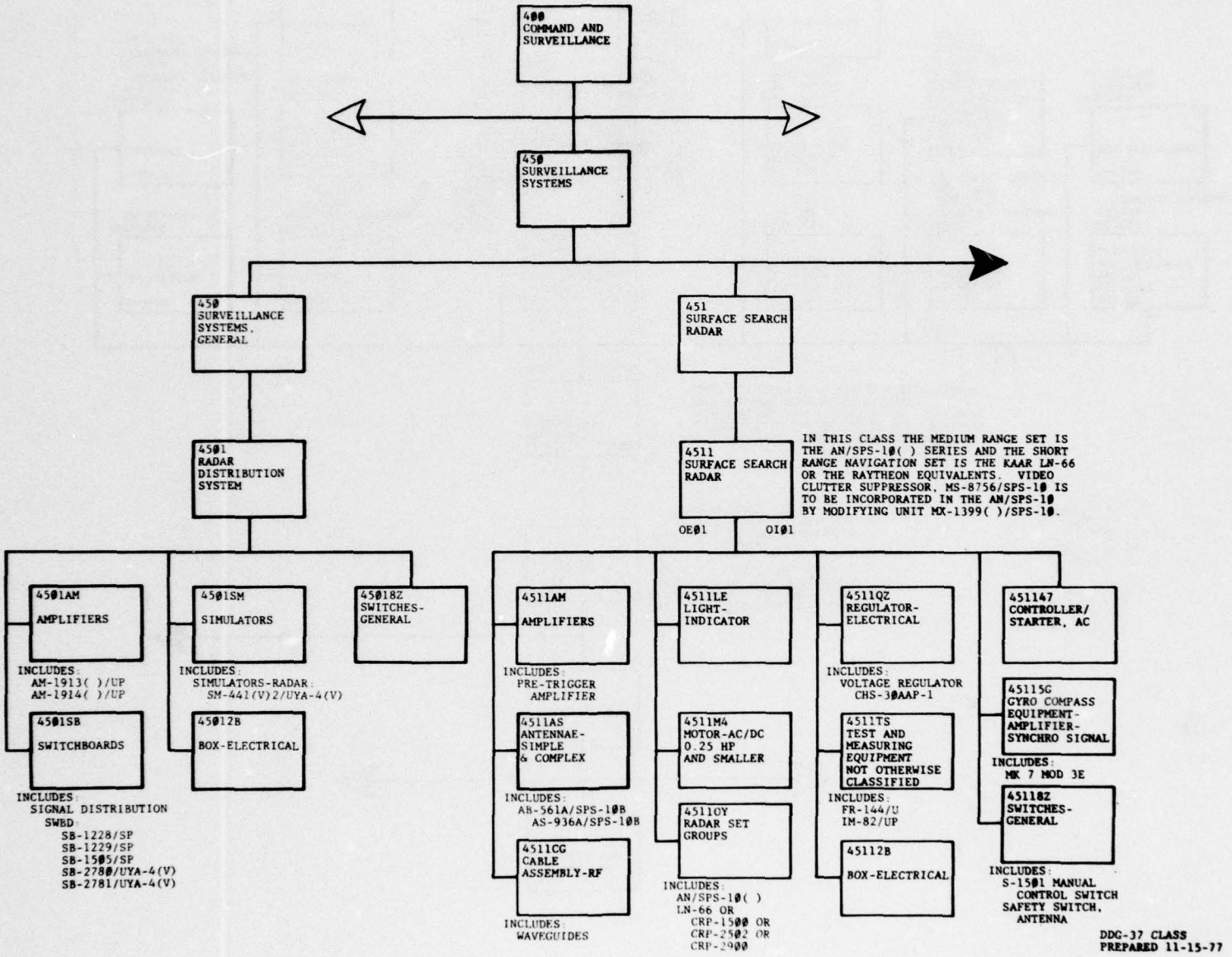
AN/UGC-1A	TT-69A/UG
AN/UGC-6K	TT-70A/UG
CY-2529/UG	TT-159/UG
MT-2099/UG	TT-176/UG
MT-2675/UG	TT-187( )/UG
PD-67/U	TT-192( )/UG
SB-2611/UG	TT-253( )/UG
TT-252/UG	TT-311/UG
TT-266/UG	TT-315/UG
TT-433/UG	TT-316/UG
TT-437/UG	TT-358/UG
TT-439/UG	TT-371/UG
AN/UGC-8A	TT-373/UG
AN/UGC-16	TT-436/UG
AN/UGC-20( )	TT-624(V)/UG
AN/UGC-25( )	
RL-235/UG	

44512B BOX-ELECTRICAL

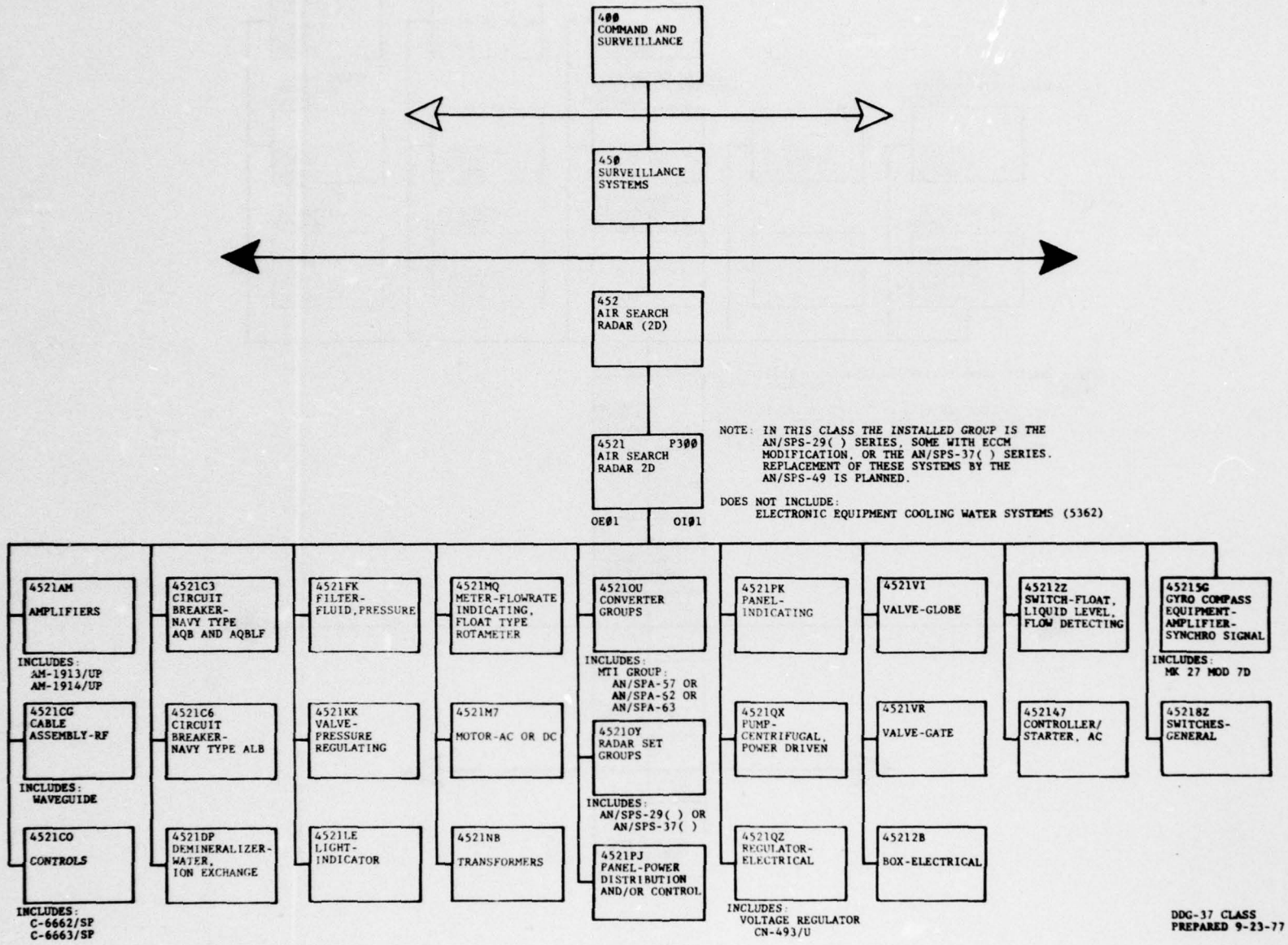
44518Z SWITCHES-GENERAL

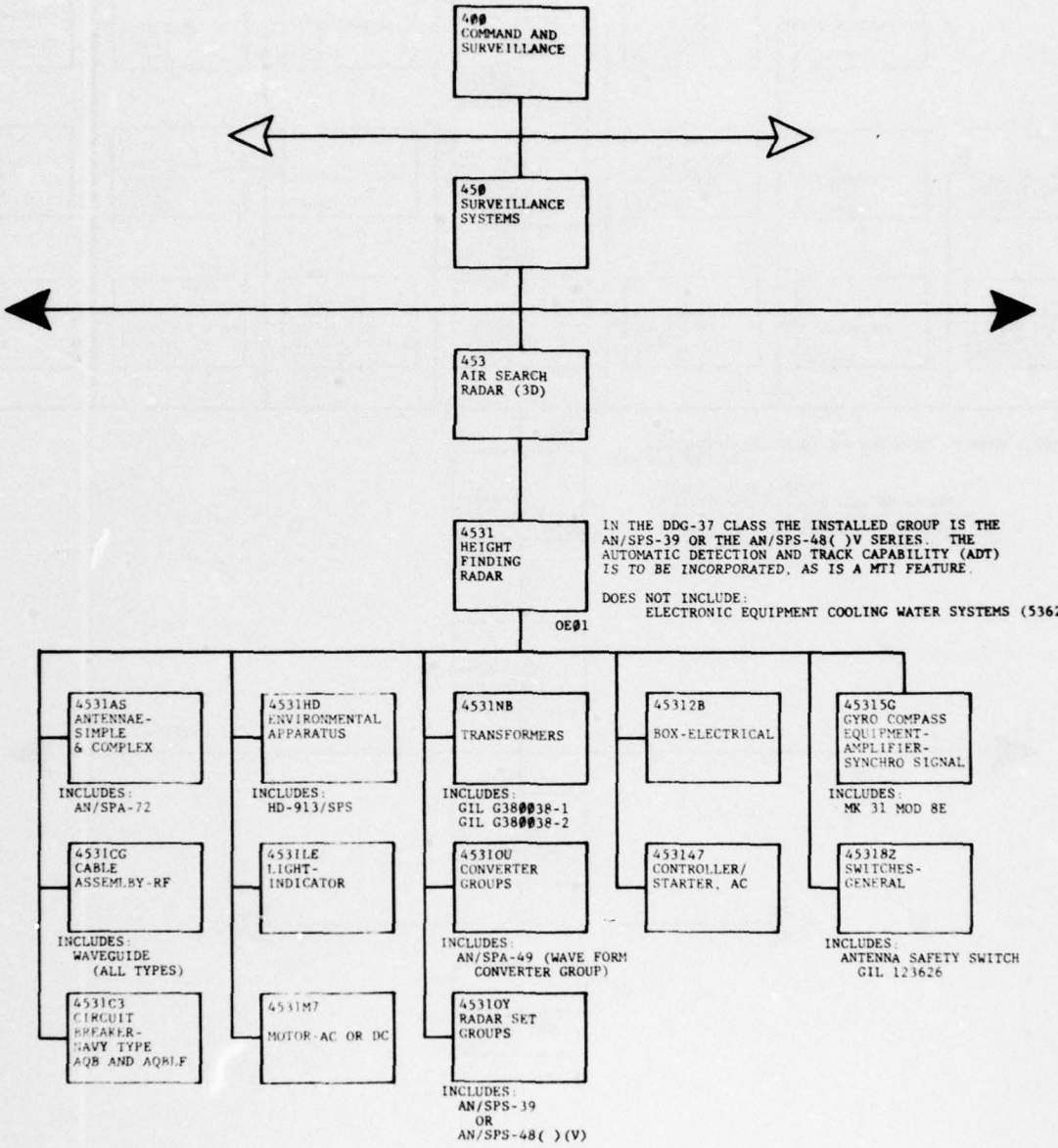
DDG-37 CLASS
PREPARED 11-15-77


4ØØ
COMMAND AND SURVEILLANCE
44Ø
EXTERIOR COMMUNICATIONS
446
SECURITY EQUIPMENT
INCLUDES INTERCONNECTING CABLING BETWEEN SYSTEM COMPONENTS AND ALL COMPONENTS OF COMMUNICATION SECURITY SUBSYSTEM (CSS), WHEN INSTALLED.
DOES NOT INCLUDE:
SECURITY EQUIPMENT WHICH IS A PART OF THE IDENTIFICATION SYSTEM (IFF) (455)
4461 QFØØ
SECURITY EQUIPMENT
NOTE: ALTHOUGH SOME ELEMENTS INCLUDED IN THESE SYSTEMS COULD/CAN BE PLACED WITH SIMILAR/ IDENTICAL UNITS IN OTHER CODES, THEY WERE GROUPED HERE BECAUSE OF PRIMARY IDENTIFICATION WITH SECURE SYSTEM MAKEUP.
OCØ1
OEØ1
4461AM
AMPLIFIERS
INCLUDES:
AM-3729/SR
4461CO
CONTROLS
INCLUDES:
C-1138( )/UR (REMOVAL PLANNED)
C-7594( )/U (REMOVAL PLANNED)
MX-( )/U
4461CU
COUPLER
INCLUDES:
IMPEDANCE MATCHING NETWORK CU-1653
4461ID
INDICATOR-NON CATHODE RAY TUBE
INCLUDES:
ID-866/SG
4461LS
LOUDSPEAKERS
INCLUDES:
LS-474/U
44610X
CODER,DECODER, INTERROGATOR, TRANSPONDER GROUPS
INCLUDES:
KWL-3/TSEC
TSEC/HL-1B
TSEC/HL-2 (REMOVAL PLANNED)
TSEC/KG-7
TSEC/KG-14 (REMOVAL PLANNED)
KOI-4A/TSEC
RGQ-14
TSEC/KG-22 (REMOVAL PLANNED)
KGB-12/TSEC
KGD-7/TSEC
KGD-8/TSEC
RGQ-22
TSEC/KG-36-4 (FUTURE)
CV-3333/U
TSEC/KG-4Ø (FUTURE)
TSEC/KL-47
KLB-47/TSEC
KLK-47/TSEC
TSEC/KW-7
KWF-1/TSEC
KWL-4( )/TSEC
KWQ-8/TSEC
KWX-1Ø/TSEC
KWK-7/TSEC
TSEC/KWR-37A
KOI-37/TSEC
KWB-6/TSEC
KWQ-4/TSEC
KWR-37/TSEC
TSEC/KY-8 AUTO
HYP-2/TSEC
KYB-6/TSEC
KYK-3/TSEC
KYK-5/TSEC
KYK-12/TSEC
RYQ-8/TSEC
TSEC/KY-8 MANUAL
TSEC/KY-58 (FUTURE)
TSEC/KY-75
TSEC/Z-AHD
4461PP
POWER SUPPLY-NONROTATING MACHINE TYPE
INCLUDES:
PP-1767A/UG
4461SA
SWITCHING UNITS
INCLUDES:
SA-734/SG
SA-1539/S
4461SB
SWITCHBOARDS
INCLUDES:
SB-988/SRT
4461TA
TELEPHONE APPARATUS
INCLUDES:
TELEPHONE TERMINAL:
TA-734/U
TA-79Ø/U
TA-84Ø/U (FUTURE)
4461TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
AN/USM-281( )
ENG-337
ENG-347
4461TT
TELETYPE WRITER AND FACSIMILE APPARATUS
INCLUDES:
AN/SGA-3 (REMOVAL PLANNED)
44612B
BOX-ELECTRICAL
INCLUDES:
J-2697/UR
J-2698/UR
DDG-37 CLASS
PREPARED 11-15-77

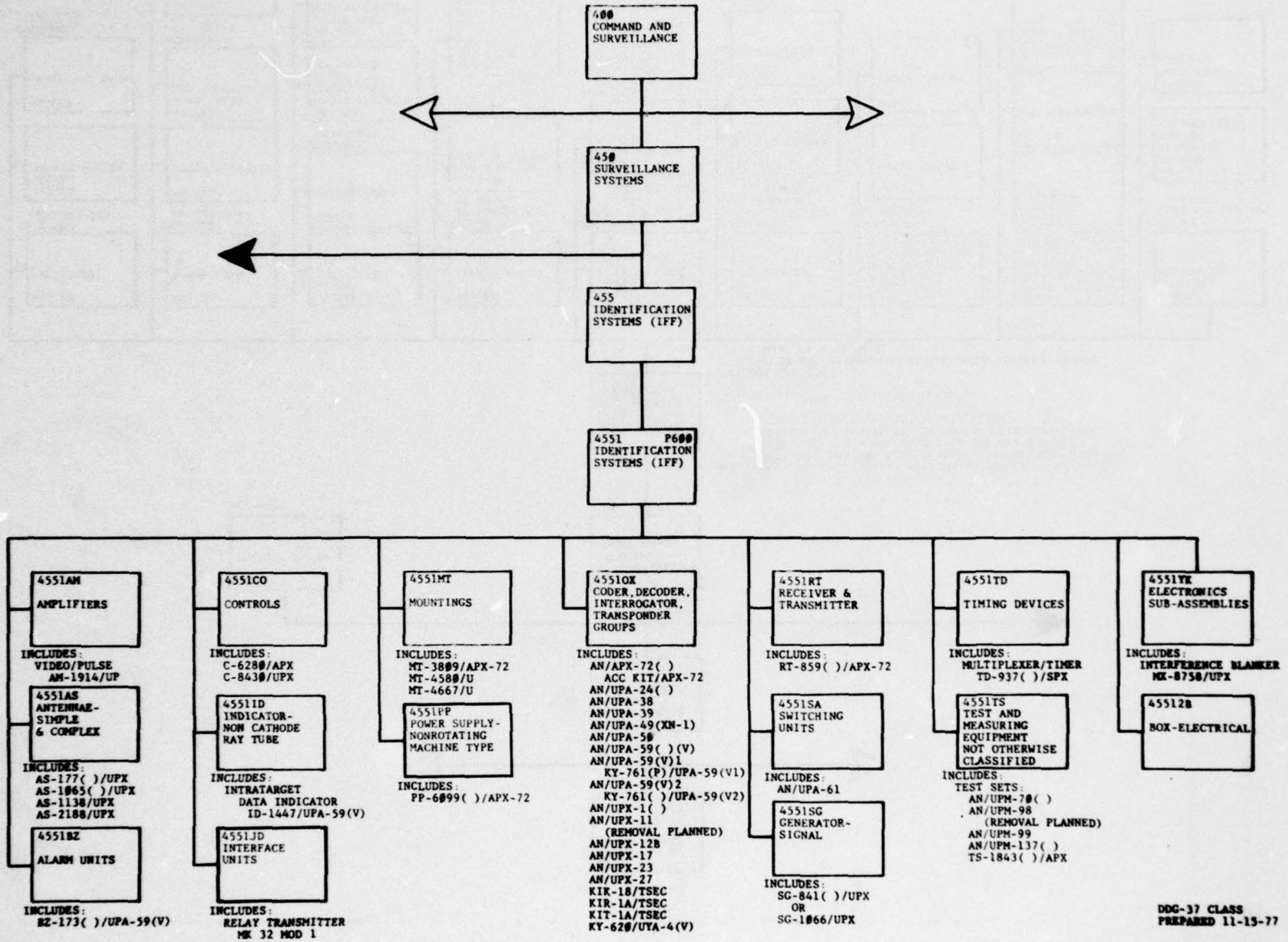


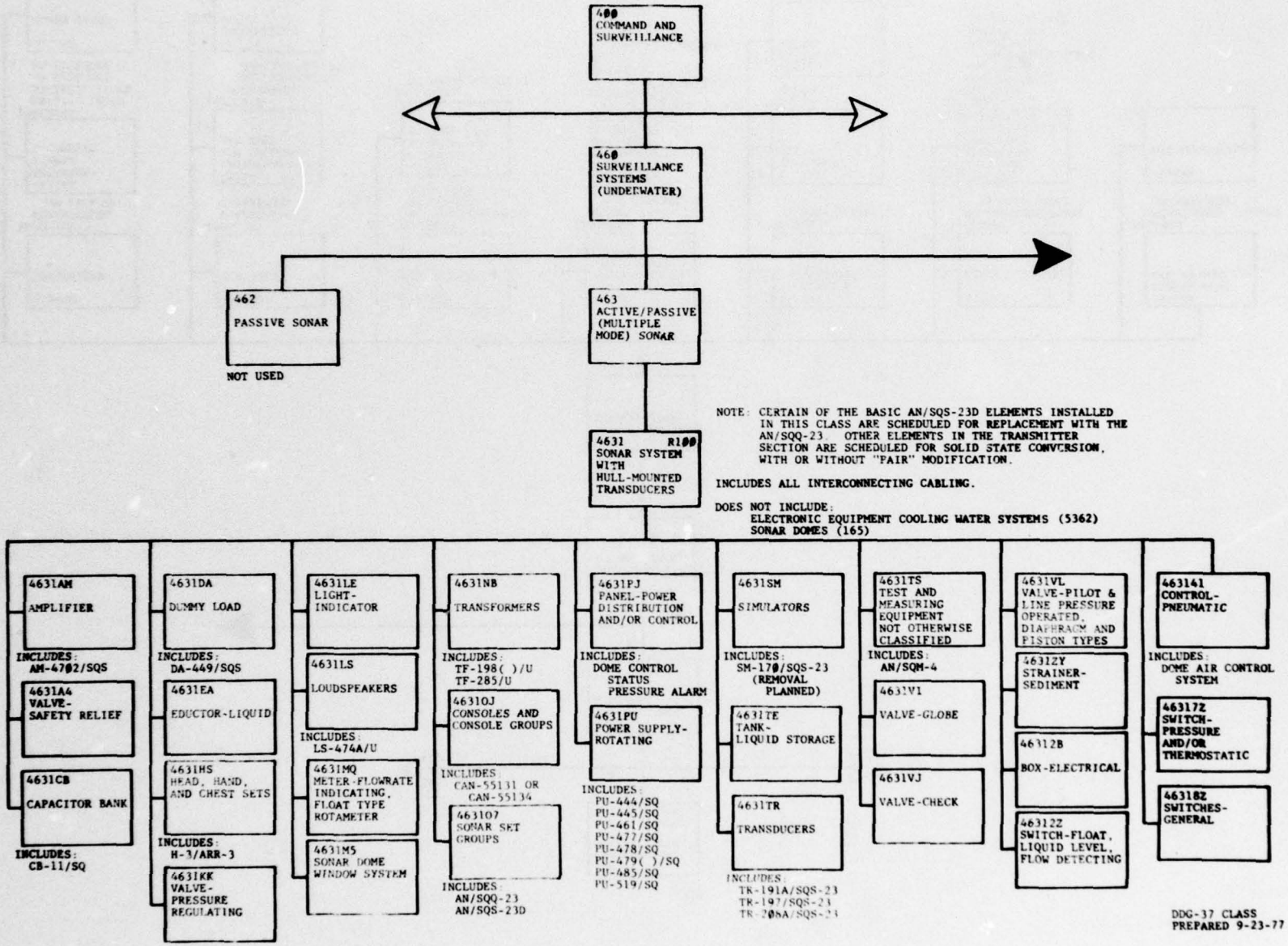
DDG-37 CLASS
PREPARED 11-15-77

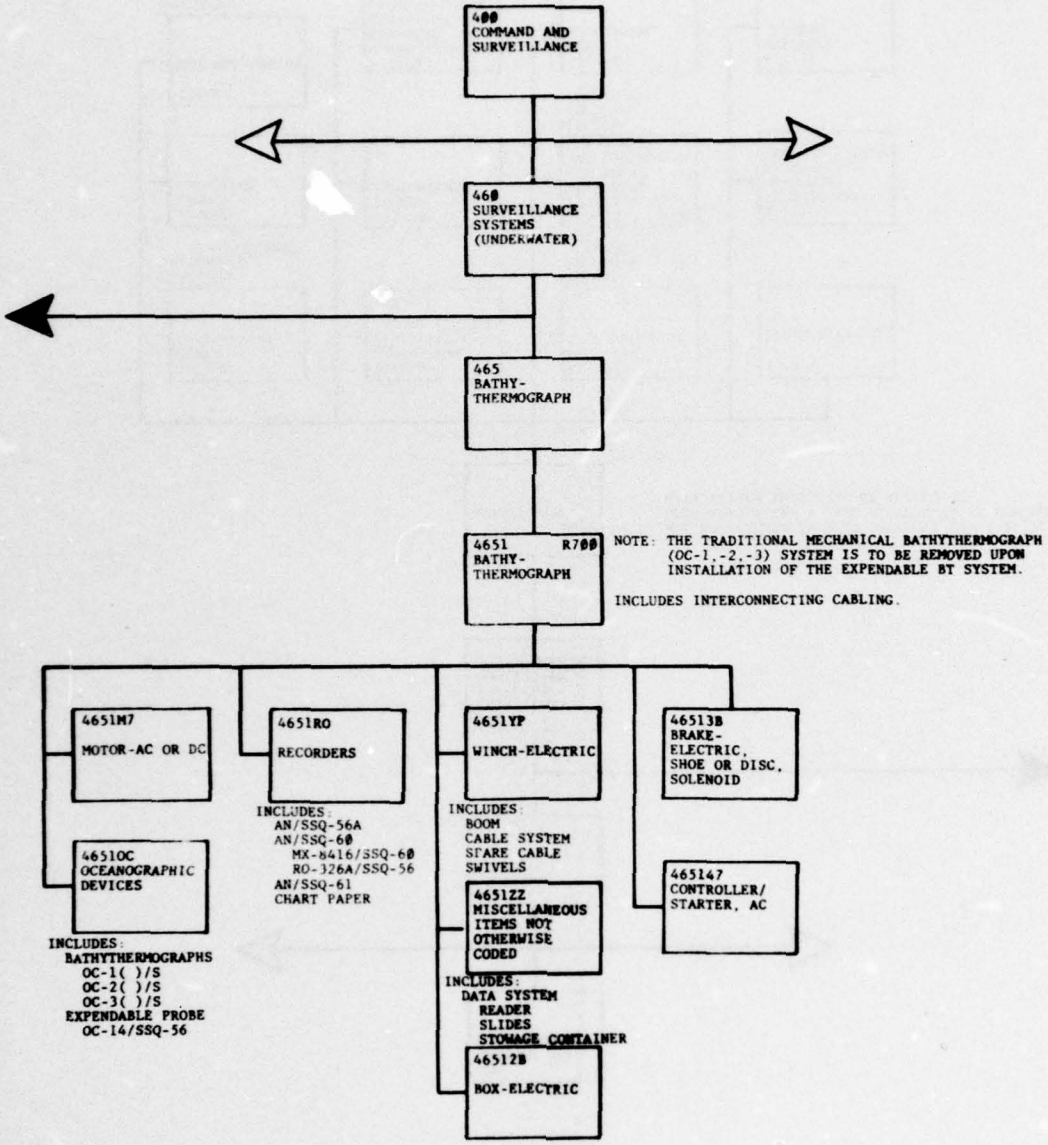

400
COMMAND AND SURVEILLANCE
450
SURVEILLANCE SYSTEMS
452
AIR SEARCH RADAR (2D)
4521 P300
AIR SEARCH RADAR 2D
OE01
OI01
NOTE: IN THIS CLASS THE INSTALLED GROUP IS THE AN/SPS-29( ) SERIES, SOME WITH ECCM MODIFICATION, OR THE AN/SPS-37( ) SERIES. REPLACEMENT OF THESE SYSTEMS BY THE AN/SPS-49 IS PLANNED.
DOES NOT INCLUDE: ELECTRONIC EQUIPMENT COOLING WATER SYSTEMS (5362)
4521AM AMPLIFIERS
INCLUDES: AM-1913/UP AM-1914/UP
4521C3 CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
4521FK FILTER-FLUID, PRESSURE
4521MQ METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER
4521OU CONVERTER GROUPS
INCLUDES: MTI GROUP: AN/SPA-57 OR AN/SPA-62 OR AN/SPA-63
4521PK PANEL-INDICATING
4521VI VALVE-GLOBE
45212Z SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
45215G GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
INCLUDES: MK 27 MOD 7D
4521CG CABLE ASSEMBLY-RF
INCLUDES: WAVEGUIDE
4521C6 CIRCUIT BREAKER-NAVY TYPE ALB
4521KK VALVE-PRESSURE REGULATING
4521M7 MOTOR-AC OR DC
4521OY RADAR SET GROUPS
INCLUDES: AN/SPS-29( ) OR AN/SPS-37( )
4521QX PUMP-CENTRIFUGAL, POWER DRIVEN
4521VR VALVE-GATE
452147 CONTROLLER/STARTER, AC
45218Z SWITCHES-GENERAL
4521CO CONTROLS
INCLUDES: C-6662/SP C-6663/SP
4521DP DEMINERALIZER-WATER, ION EXCHANGE
4521LE LIGHT-INDICATOR
4521NB TRANSFORMERS
4521PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
4521QZ REGULATOR-ELECTRICAL
INCLUDES: VOLTAGE REGULATOR CN-493/U
45212B BOX-ELECTRICAL
DDG-37 CLASS
PREPARED 9-23-77



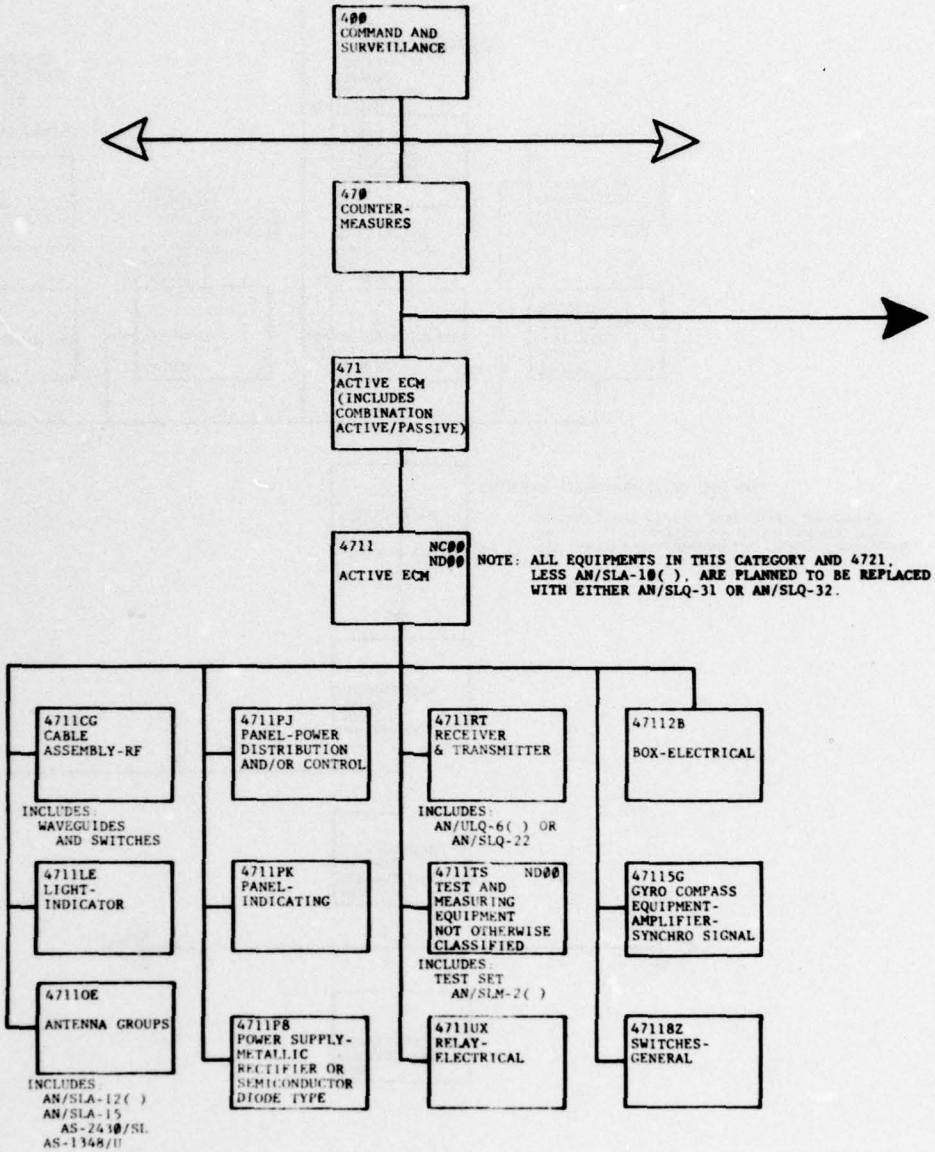
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
450
SURVEILLANCE SYSTEMS
455
IDENTIFICATION SYSTEMS (IFF)
4551 P600
IDENTIFICATION SYSTEMS (IFF)
4551AM
AMPLIFIERS
INCLUDES:
VIDEO/PULSE AM-1914/UP
4551AS
ANTENNAE-SIMPLE & COMPLEX
INCLUDES:
AS-177( )/UPX
AS-1065( )/UPX
AS-1138/UPX
AS-2188/UPX
4551BZ
ALARM UNITS
INCLUDES:
BZ-173( )/UPA-59(V)
4551CO
CONTROLS
INCLUDES:
C-6280/APX
C-8430/UPX
4551ID
INDICATOR-NON CATHODE RAY TUBE
INCLUDES:
INTRATARGET DATA INDICATOR ID-1447/UPA-59(V)
4551JD
INTERFACE UNITS
INCLUDES:
RELAY TRANSMITTER MX 32 MOD 1
4551MT
MOUNTINGS
INCLUDES:
MT-3809/APX-72
MT-4580/U
MT-4667/U
4551PP
POWER SUPPLY-NONROTATING MACHINE TYPE
INCLUDES:
PP-6099( )/APX-72
4551OX
CODER,DECODER, INTERROGATOR, TRANSPONDER GROUPS
INCLUDES:
AN/APX-72( )
ACC KIT/APX-72
AN/UPA-24( )
AN/UPA-38
AN/UPA-39
AN/UPA-49(XN-1)
AN/UPA-50
AN/UPA-59( )(V)
AN/UPA-59(V)1
KY-761(P)/UPA-59(V1)
AN/UPA-59(V)2
KY-761( )/UPA-59(V2)
AN/UPX-1( )
AN/UPX-11
(REMOVAL PLANNED)
AN/UPX-12B
AN/UPX-17
AN/UPX-23
AN/UPX-27
KIR-18/TSEC
KIR-1A/TSEC
KIT-1A/TSEC
KY-620/UYA-4(V)
4551RT
RECEIVER & TRANSMITTER
INCLUDES:
RT-859( )/APX-72
4551SA
SWITCHING UNITS
INCLUDES:
AN/UPA-61
4551SG
GENERATOR-SIGNAL
INCLUDES:
SG-841( )/UPX
OR
SG-1066/UPX
4551TD
TIMING DEVICES
INCLUDES:
MULTIPLEXER/TIMER TD-937( )/SPX
4551TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
TEST SETS:
AN/UPM-70( )
AN/UPM-98
(REMOVAL PLANNED)
AN/UPM-99
AN/UPM-137( )
TS-1843( )/APX
4551YK
ELECTRONICS SUB-ASSEMBLIES
INCLUDES:
INTERFERENCE BLANKER MX-8758/UPX
455128
BOX-ELECTRICAL
DDG-37 CLASS
PREPARED 11-15-77

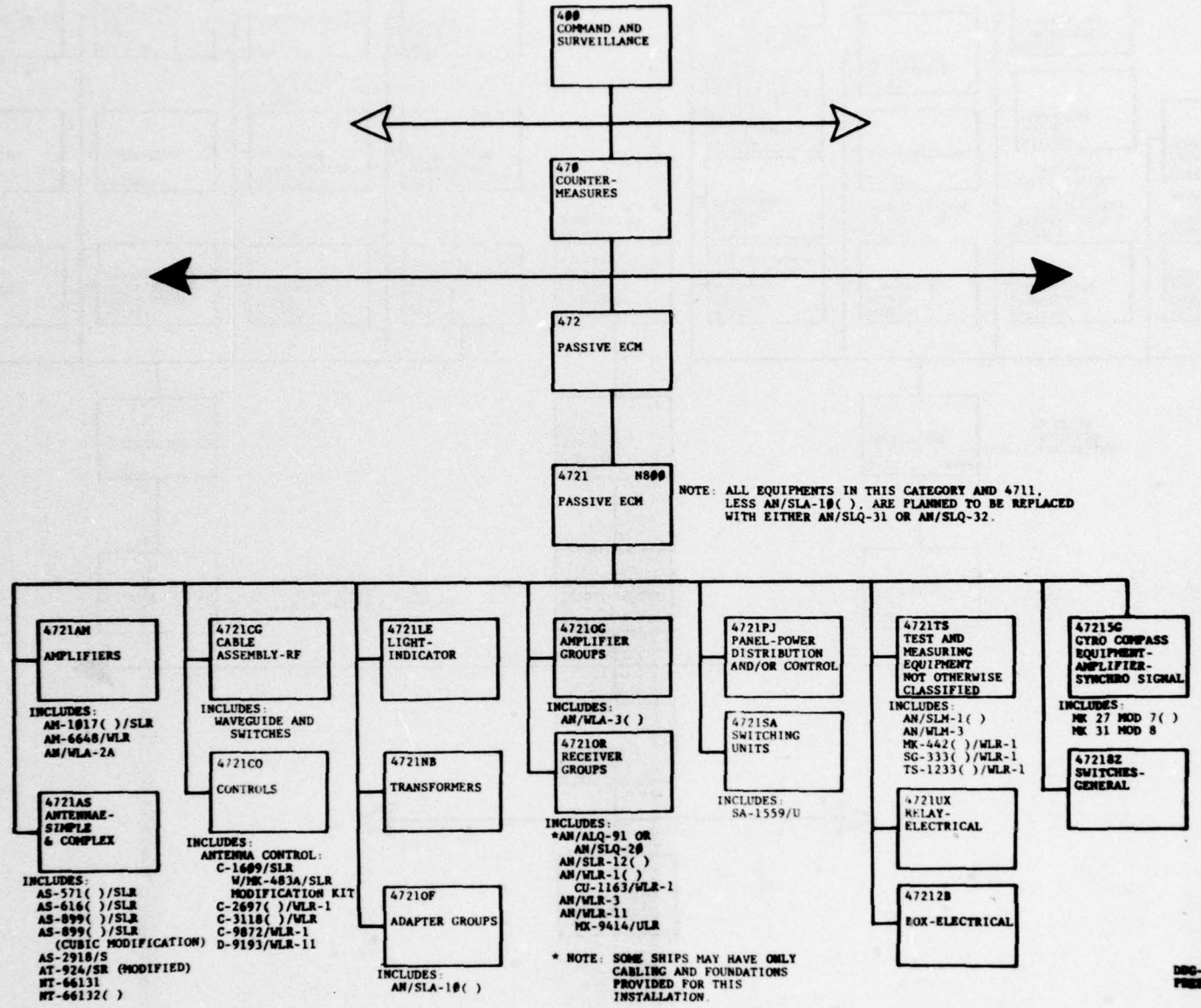

400
COMMAND AND SURVEILLANCE
460
SURVEILLANCE SYSTEMS (UNDERWATER)
462
PASSIVE SONAR
NOT USED
463
ACTIVE/PASSIVE (MULTIPLE MODE) SONAR
4631 R100
SONAR SYSTEM WITH HULL-MOUNTED TRANSDUCERS
NOTE: CERTAIN OF THE BASIC AN/SQS-23D ELEMENTS INSTALLED IN THIS CLASS ARE SCHEDULED FOR REPLACEMENT WITH THE AN/SQQ-23. OTHER ELEMENTS IN THE TRANSMITTER SECTION ARE SCHEDULED FOR SOLID STATE CONVERSION, WITH OR WITHOUT "FAIR" MODIFICATION.
INCLUDES ALL INTERCONNECTING CABLING.
DOES NOT INCLUDE:
ELECTRONIC EQUIPMENT COOLING WATER SYSTEMS (5362)
SONAR DOMES (165)
4631AM
AMPLIFIER
INCLUDES: AM-470Z/SQS
4631A4
VALVE-SAFETY RELIEF
4631CB
CAPACITOR BANK
INCLUDES: CB-11/SQ
4631DA
DUMMY LOAD
INCLUDES: DA-449/SQS
4631EA
EDUCTOR-LIQUID
4631HS
HEAD, HAND, AND CHEST SETS
INCLUDES: H-3/ARR-3
4631KK
VALVE-PRESSURE REGULATING
4631LE
LIGHT-INDICATOR
4631LS
LOUDSPEAKERS
INCLUDES: LS-474A/U
4631MQ
METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER
4631M5
SONAR DOME WINDOW SYSTEM
4631NB
TRANSFORMERS
INCLUDES: TF-198( )/U TF-285/U
4631OJ
CONSOLES AND CONSOLE GROUPS
INCLUDES: CAN-55131 OR CAN-55134
4631O7
SONAR SET GROUPS
INCLUDES: AN/SQQ-23 AN/SQS-23D
4631PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES: DOME CONTROL STATUS PRESSURE ALARM
4631PU
POWER SUPPLY-ROTATING
INCLUDES: PU-444/SQ PU-445/SQ PU-461/SQ PU-477/SQ PU-478/SQ PU-479( )/SQ PU-485/SQ PU-519/SQ
4631SM
SIMULATORS
INCLUDES: SM-170/SQS-23 (REMOVAL PLANNED)
4631TE
TANK-LIQUID STORAGE
4631TR
TRANSDUCERS
INCLUDES: TR-191A/SQS-23 TR-197/SQS-23 TR-200A/SQS-23
4631TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES: AN/SQM-4
4631V1
VALVE-GLOBE
4631VJ
VALVE-CHECK
4631VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
46312Y
STRAINER-SEDIMENT
46312B
BOX-ELECTRICAL
46312Z
SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
463141
CONTROL-PNEUMATIC
INCLUDES: DOME AIR CONTROL SYSTEM
46317Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
46318Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 9-23-77

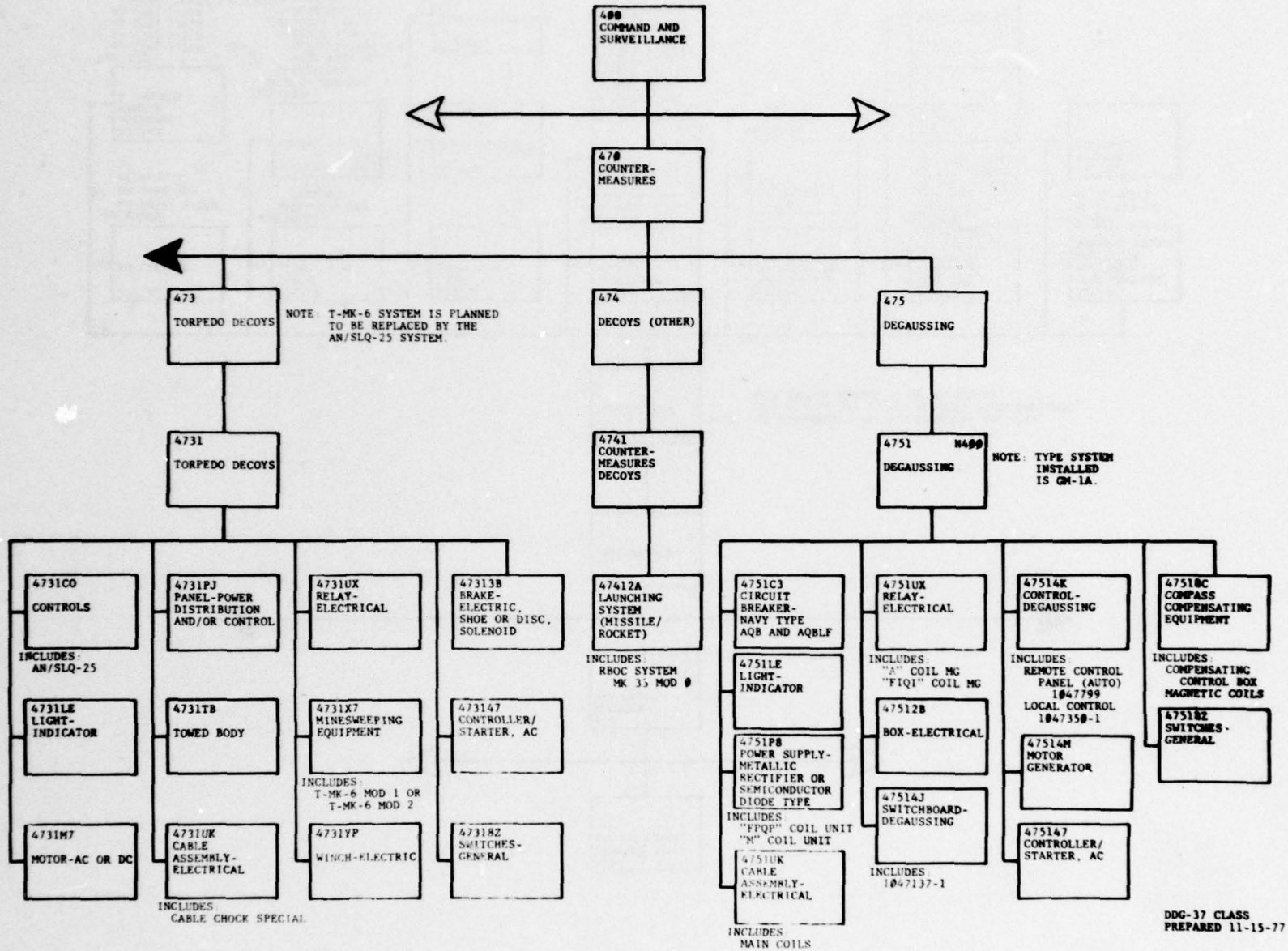


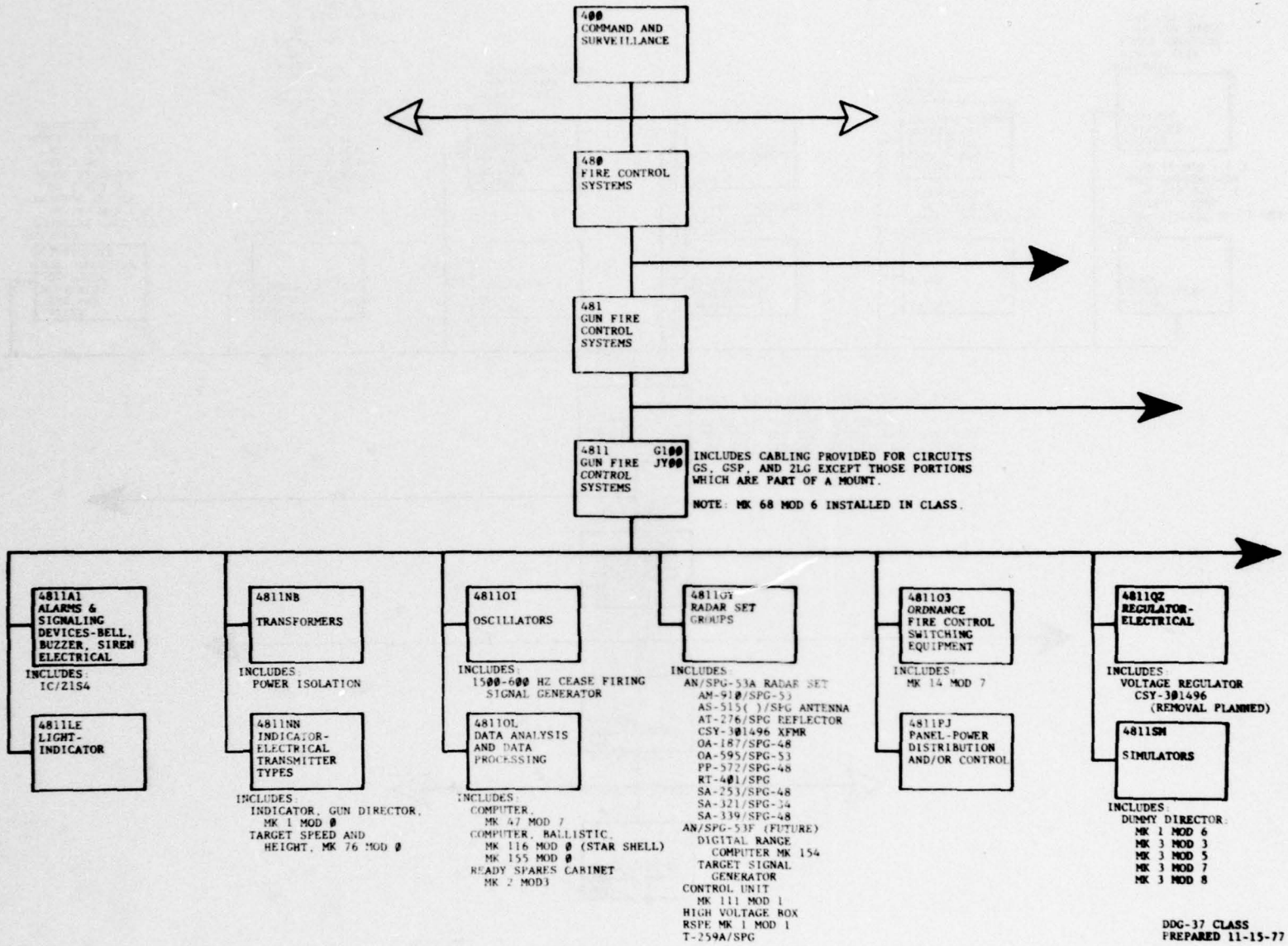
DDG-37 CLASS
PREPARED 9-23-77

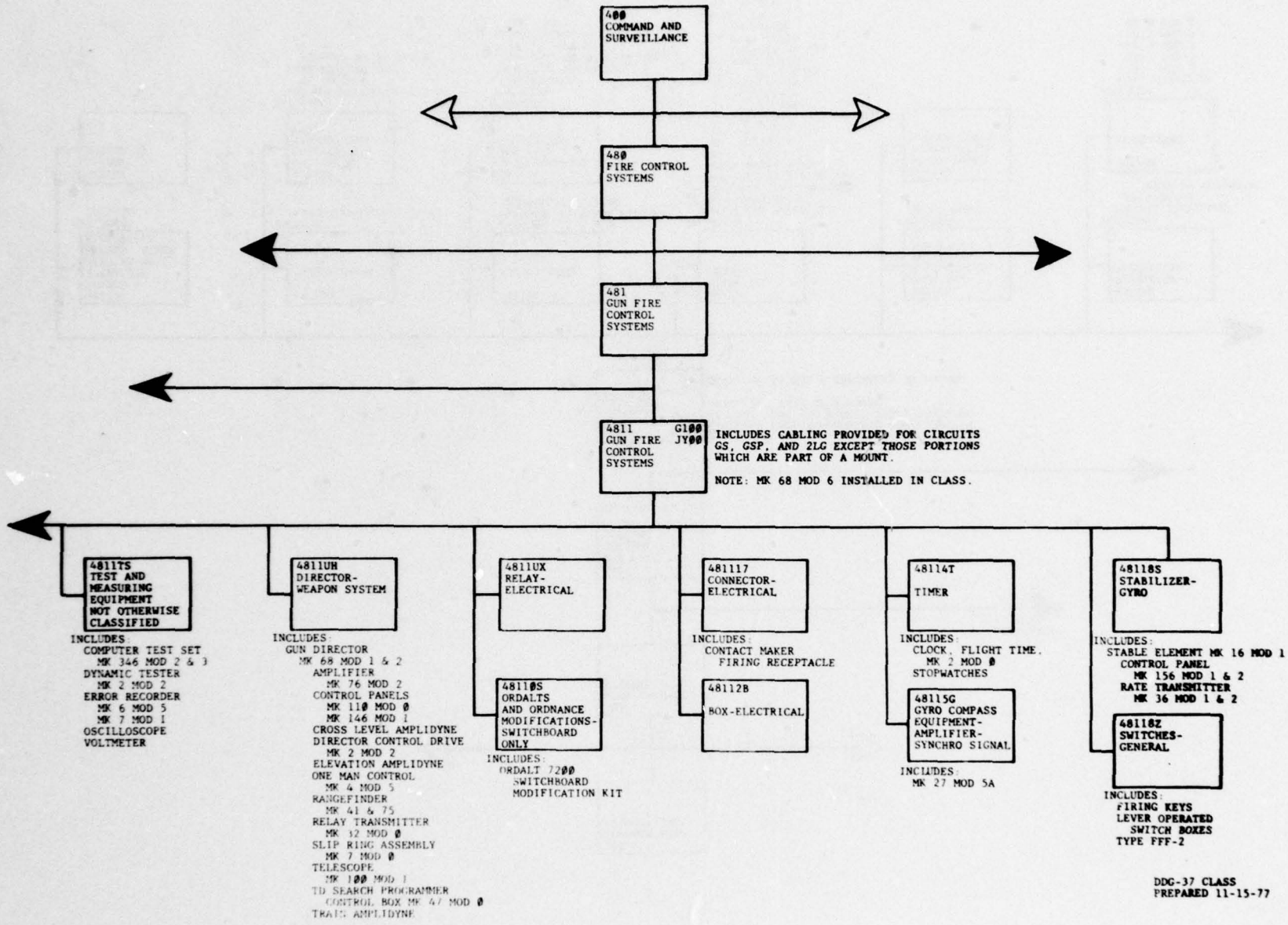


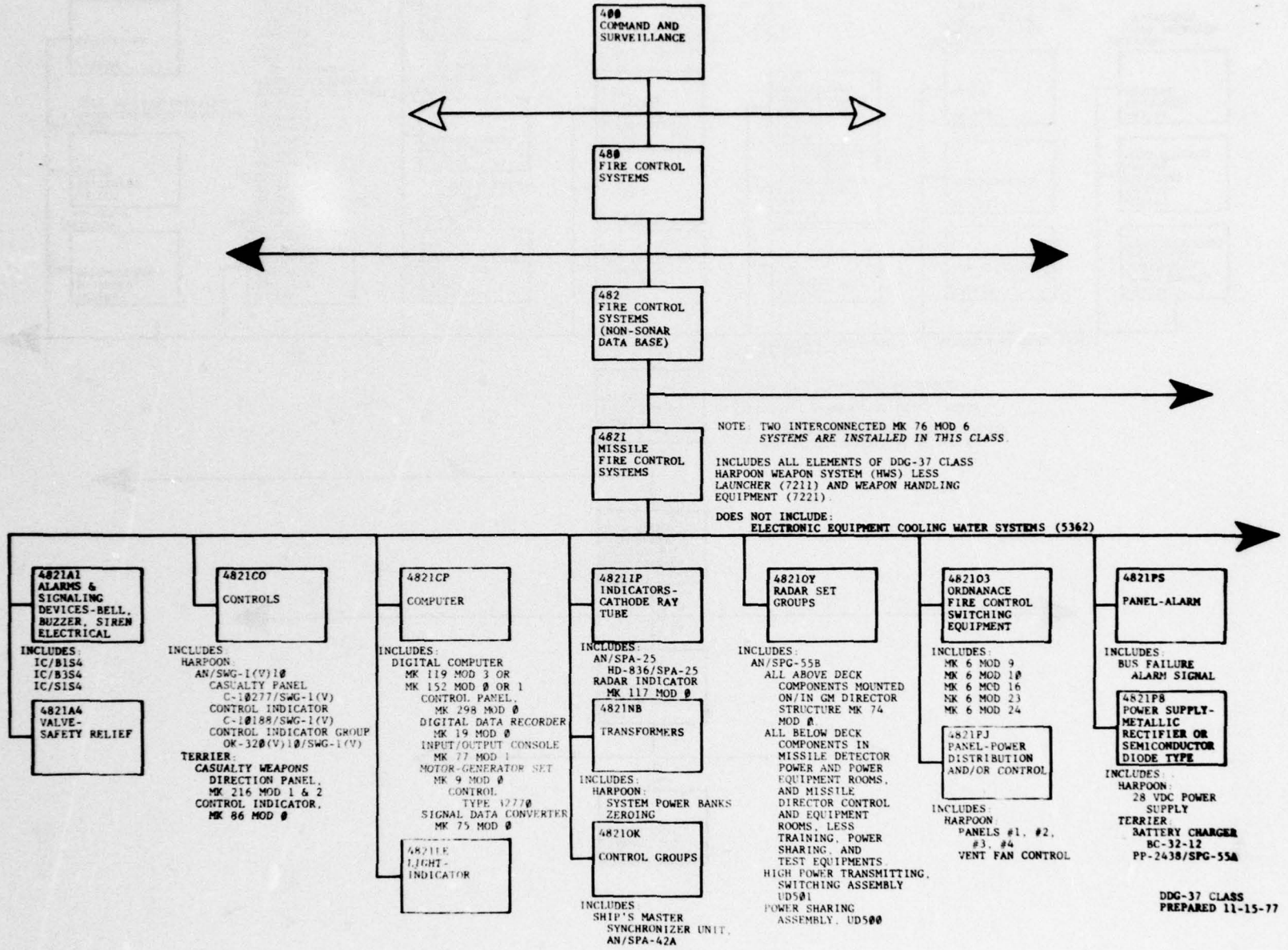
DDG-37 CLASS
PREPARED 11-15-77

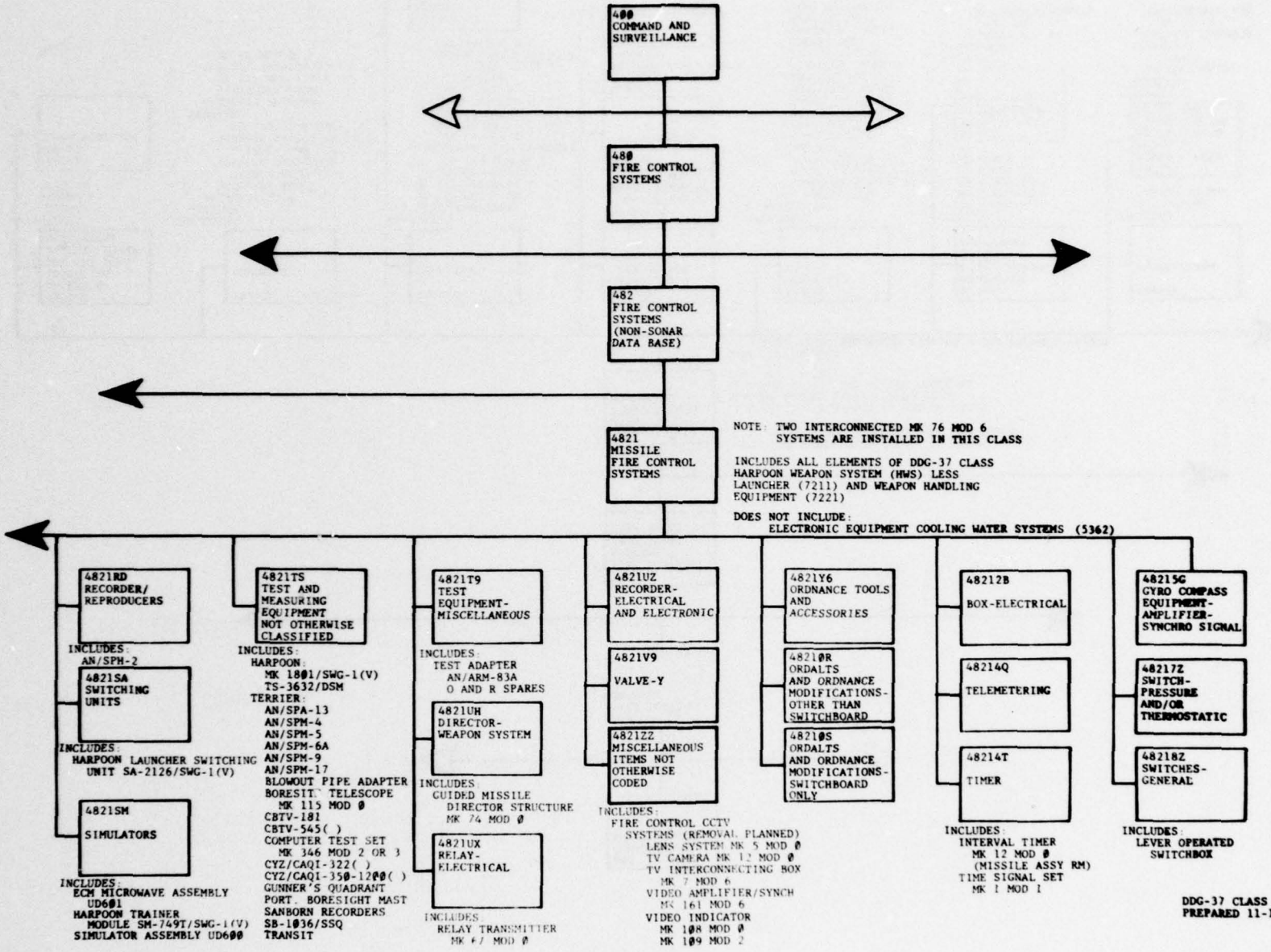

400
COMMAND AND SURVEILLANCE
470
COUNTER-MEASURES
472
PASSIVE ECM
4721 N800
PASSIVE ECM
NOTE: ALL EQUIPMENTS IN THIS CATEGORY AND 4711, LESS AN/SLA-10( ), ARE PLANNED TO BE REPLACED WITH EITHER AN/SLQ-31 OR AN/SLQ-32.
4721AM
AMPLIFIERS
INCLUDES:
AM-1017( )/SLR
AM-6648/WLR
AM/WLA-2A
4721AS
ANTENNAE-SIMPLE & COMPLEX
INCLUDES:
AS-571( )/SLR
AS-616( )/SLR
AS-899( )/SLR
AS-899( )/SLR (CUBIC MODIFICATION)
AS-2918/S
AT-924/SR (MODIFIED)
NT-66131
NT-66132( )
4721CG
CABLE ASSEMBLY-RF
INCLUDES:
WAVEGUIDE AND SWITCHES
4721CO
CONTROLS
INCLUDES:
ANTENNA CONTROL:
C-1609/SLR W/MK-483A/SLR MODIFICATION KIT
C-2697( )/WLR-1
C-3118( )/WLR
C-9872/WLR-1
D-9193/WLR-11
4721LE
LIGHT-INDICATOR
4721NB
TRANSFORMERS
4721OF
ADAPTER GROUPS
INCLUDES:
AN/SLA-10( )
4721OG
AMPLIFIER GROUPS
INCLUDES:
AN/WLA-3( )
4721OR
RECEIVER GROUPS
INCLUDES:
*AN/ALQ-91 OR AN/SLQ-20
AN/SLR-12( )
AN/WLR-1( )
CU-1163/WLR-1
AN/WLR-3
AN/WLR-11
MX-9414/ULR
* NOTE: SOME SHIPS MAY HAVE ONLY CABLING AND FOUNDATIONS PROVIDED FOR THIS INSTALLATION.
4721PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4721SA
SWITCHING UNITS
INCLUDES:
SA-1559/U
4721TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
AN/SLM-1( )
AN/WLM-3
MK-442( )/WLR-1
SG-333( )/WLR-1
TS-1233( )/WLR-1
4721UX
RELAY-ELECTRICAL
47212B
BOX-ELECTRICAL
47215G
GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
INCLUDES:
MK 27 MOD 7( )
MK 31 MOD 8
47218Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

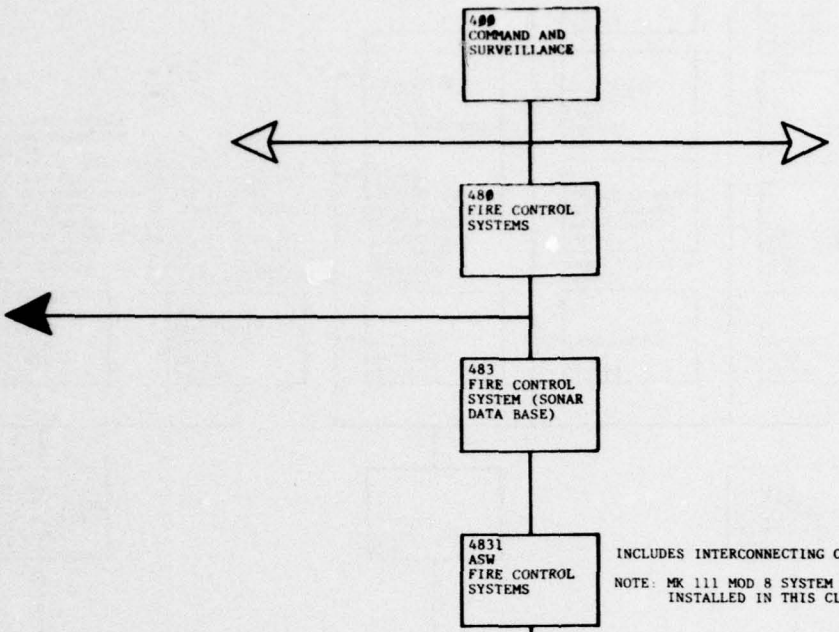

400
COMMAND AND SURVEILLANCE
470
COUNTER-MEASURES
473
TORPEDO DECOYS
NOTE: T-MK-6 SYSTEM IS PLANNED TO BE REPLACED BY THE AN/SLQ-25 SYSTEM.
474
DECOYS (OTHER)
475
DEGAUSSING
4731
TORPEDO DECOYS
4741
COUNTER-MEASURES DECOYS
4751 N400
DEGAUSSING
NOTE: TYPE SYSTEM INSTALLED IS GM-1A.
4731CO
CONTROLS
INCLUDES: AN/SLQ-25
4731LE
LIGHT-INDICATOR
4731M7
MOTOR-AC OR DC
4731PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4731TB
TOWED BODY
4731UK
CABLE ASSEMBLY-ELECTRICAL
INCLUDES: CABLE CHOCK SPECIAL
4731UX
RELAY-ELECTRICAL
4731X7
MINESWEEPING EQUIPMENT
INCLUDES: T-MK-6 MOD 1 OR T-MK-6 MOD 2
4731YP
WINCH-ELECTRIC
47313B
BRAKE-ELECTRIC, SHOE OR DISC, SOLENOID
473147
CONTROLLER/STARTER, AC
47318Z
SWITCHES-GENERAL
47412A
LAUNCHING SYSTEM (MISSILE/ROCKET)
INCLUDES: RBOC SYSTEM MK 35 MOD 0
4751C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
4751LE
LIGHT-INDICATOR
4751P8
POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
INCLUDES: "FPQP" COIL UNIT "M" COIL UNIT
4751UK
CABLE ASSEMBLY-ELECTRICAL
INCLUDES: MAIN COILS
4751UX
RELAY-ELECTRICAL
INCLUDES: "A" COIL MG "FIQI" COIL MG
47512B
BOX-ELECTRICAL
47514J
SWITCHBOARD-DEGAUSSING
INCLUDES: 1047137-1
47514K
CONTROL-DEGAUSSING
INCLUDES: REMOTE CONTROL PANEL (AUTO) 1047799 LOCAL CONTROL 1047350-1
47514M
MOTOR GENERATOR
475147
CONTROLLER/STARTER, AC
4751BC
COMPASS COMPENSATING EQUIPMENT
INCLUDES: COMPENSATING CONTROL BOX MAGNETIC COILS
4751BZ
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

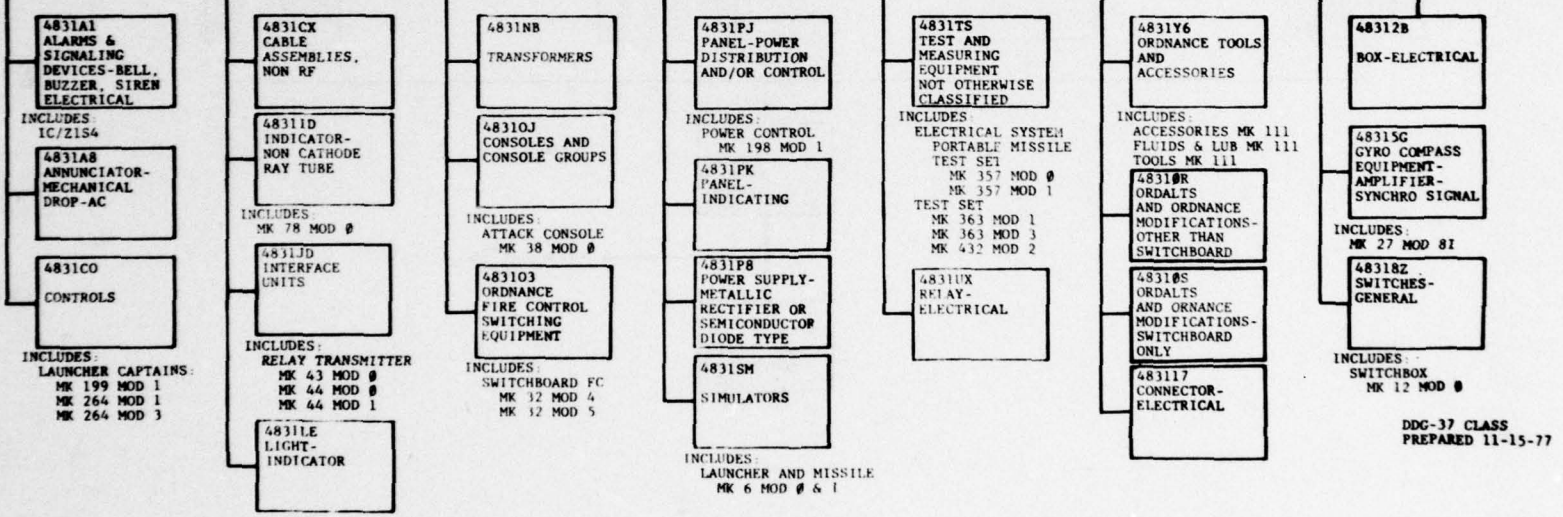

400
COMMAND AND SURVEILLANCE
480
FIRE CONTROL SYSTEMS
481
GUN FIRE CONTROL SYSTEMS
4811 G100 JY00
GUN FIRE CONTROL SYSTEMS
INCLUDES CABLING PROVIDED FOR CIRCUITS GS, GSP, AND 2LG EXCEPT THOSE PORTIONS WHICH ARE PART OF A MOUNT.
NOTE: MK 68 MOD 6 INSTALLED IN CLASS.
4811A1
ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
INCLUDES:
IC/21S4
4811LE
LIGHT-INDICATOR
4811NB
TRANSFORMERS
INCLUDES:
POWER ISOLATION
4811NN
INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES:
INDICATOR, GUN DIRECTOR, MK 1 MOD 0
TARGET SPEED AND HEIGHT, MK 76 MOD 0
4811OI
OSCILLATORS
INCLUDES:
1500-600 HZ CEASE FIRING SIGNAL GENERATOR
4811OL
DATA ANALYSIS AND DATA PROCESSING
INCLUDES:
COMPUTER, MK 47 MOD 7
COMPUTER, BALLISTIC, MK 116 MOD 0 (STAR SHELL) MK 155 MOD 0
READY SPARES CABINET MK 2 MOD3
4811GY
RADAR SET GROUPS
INCLUDES:
AN/SPG-53A RADAR SET
AM-910/SPG-53
AS-515( )/SPG ANTENNA
AT-276/SPG REFLECTOR
CSY-301496 XFMR
OA-187/SPG-48
OA-595/SPG-53
PP-572/SPG-48
RT-401/SPG
SA-253/SPG-48
SA-321/SPG-34
SA-339/SPG-48
AN/SPG-53F (FUTURE)
DIGITAL RANGE COMPUTER MK 154
TARGET SIGNAL GENERATOR
CONTROL UNIT MK 111 MOD 1
HIGH VOLTAGE BOX RSPE MK 1 MOD 1
T-259A/SPG
4811O3
ORDNANCE FIRE CONTROL SWITCHING EQUIPMENT
INCLUDES:
MK 14 MOD 7
4811PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4811QZ
REGULATOR-ELECTRICAL
INCLUDES:
VOLTAGE REGULATOR CSY-301496 (REMOVAL PLANNED)
4811SM
SIMULATORS
INCLUDES:
DUMMY DIRECTOR:
MK 1 MOD 6
MK 3 MOD 3
MK 3 MOD 5
MK 3 MOD 7
MK 3 MOD 8
DDG-37 CLASS
PREPARED 11-15-77


400
COMMAND AND SURVEILLANCE
480
FIRE CONTROL SYSTEMS
481
GUN FIRE CONTROL SYSTEMS
4811 G100 JY00
GUN FIRE CONTROL SYSTEMS
INCLUDES CABLING PROVIDED FOR CIRCUITS GS, GSP, AND 2LG EXCEPT THOSE PORTIONS WHICH ARE PART OF A MOUNT.
NOTE: MK 68 MOD 6 INSTALLED IN CLASS.
4811TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
COMPUTER TEST SET
MK 346 MOD 2 & 3
DYNAMIC TESTER
MK 2 MOD 2
ERROR RECORDER
MK 6 MOD 5
MK 7 MOD 1
OSCILLOSCOPE
VOLTMETER
4811UH
DIRECTOR-WEAPON SYSTEM
INCLUDES:
GUN DIRECTOR
MK 68 MOD 1 & 2
AMPLIFIER
MK 76 MOD 2
CONTROL PANELS
MK 110 MOD 0
MK 146 MOD 1
CROSS LEVEL AMPLIDYNE
DIRECTOR CONTROL DRIVE
MK 2 MOD 2
ELEVATION AMPLIDYNE
ONE MAN CONTROL
MK 4 MOD 5
RANGEFINDER
MK 41 & 75
RELAY TRANSMITTER
MK 32 MOD 0
SLIP RING ASSEMBLY
MK 7 MOD 0
TELESCOPE
MK 100 MOD 1
TD SEARCH PROGRAMMER
CONTROL BOX MK 47 MOD 0
TRAIN AMPLIDYNE
4811UX
RELAY-ELECTRICAL
4811ØS
ORDALTS AND ORDNANCE MODIFICATIONS-SWITCHBOARD ONLY
INCLUDES:
ORDALT 72Ø0
SWITCHBOARD MODIFICATION KIT
481117
CONNECTOR-ELECTRICAL
INCLUDES:
CONTACT MAKER
FIRING RECEPTACLE
48112B
BOX-ELECTRICAL
48114T
TIMER
INCLUDES:
CLOCK, FLIGHT TIME, MK 2 MOD 0
STOPWATCHES
48115G
GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
INCLUDES:
MK 27 MOD 5A
48118S
STABILIZER-GYRO
INCLUDES:
STABLE ELEMENT MK 16 MOD 1
CONTROL PANEL
MK 156 MOD 1 & 2
RATE TRANSMITTER
MK 36 MOD 1 & 2
48118Z
SWITCHES-GENERAL
INCLUDES:
FIRING KEYS
LEVER OPERATED SWITCH BOXES
TYPE FFF-2
DDG-37 CLASS
PREPARED 11-15-77

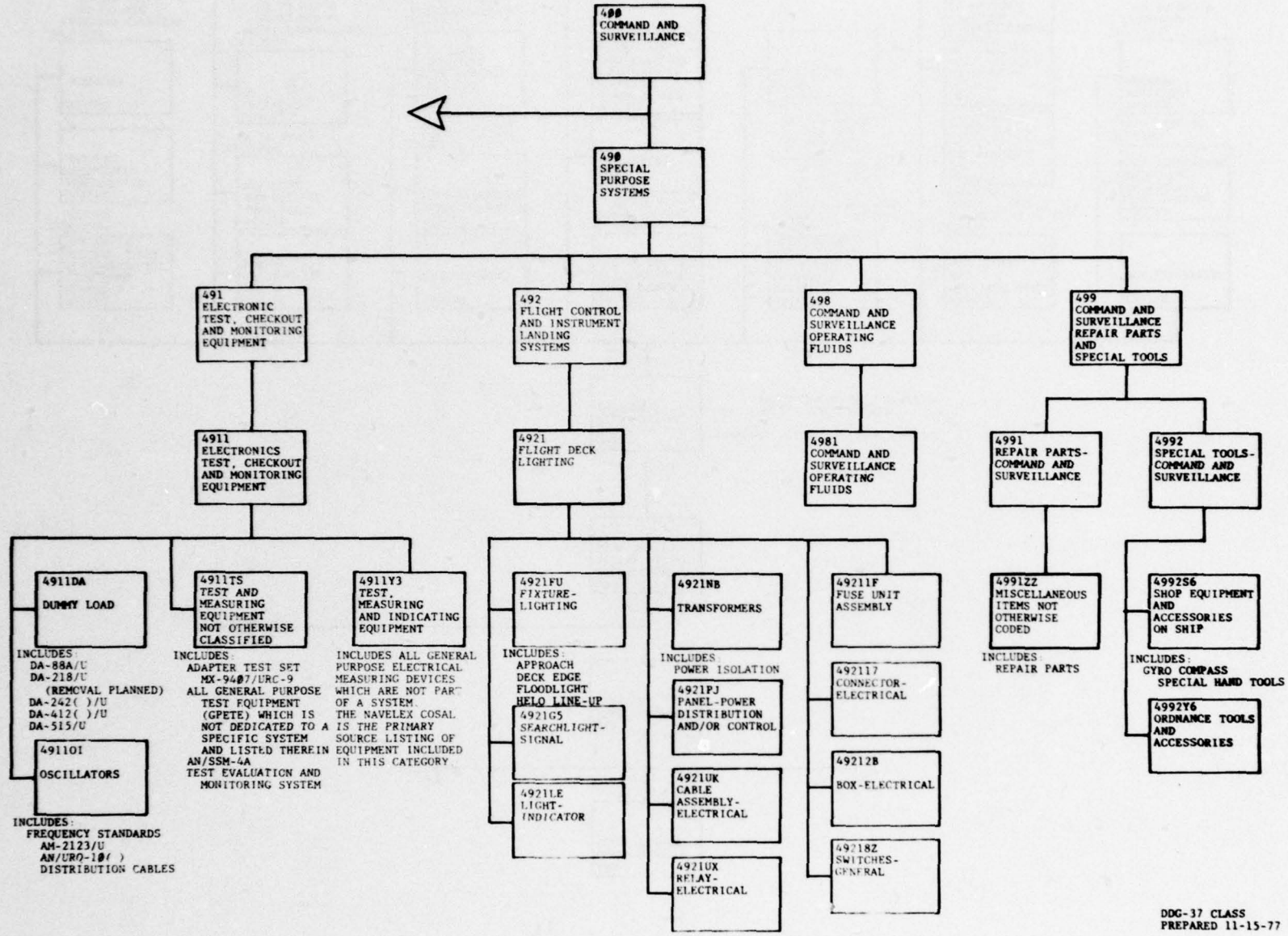

400
COMMAND AND SURVEILLANCE
480
FIRE CONTROL SYSTEMS
482
FIRE CONTROL SYSTEMS (NON-SONAR DATA BASE)
4821
MISSILE FIRE CONTROL SYSTEMS
NOTE: TWO INTERCONNECTED MK 76 MOD 6 SYSTEMS ARE INSTALLED IN THIS CLASS.
INCLUDES ALL ELEMENTS OF DDG-37 CLASS HARPOON WEAPON SYSTEM (HWS) LESS LAUNCHER (7211) AND WEAPON HANDLING EQUIPMENT (7221).
DOES NOT INCLUDE: ELECTRONIC EQUIPMENT COOLING WATER SYSTEMS (5362)
4821A1
ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
INCLUDES:
IC/B1S4
IC/B3S4
IC/S1S4
4821A4
VALVE-SAFETY RELIEF
4821CO
CONTROLS
INCLUDES:
HARPOON:
AN/SWG-1(V)1Ø
CASUALTY PANEL C-1Ø277/SWG-1(V)
CONTROL INDICATOR C-1Ø188/SWG-1(V)
CONTROL INDICATOR GROUP OK-32Ø(V)1Ø/SWG-1(V)
TERRIER:
CASUALTY WEAPONS DIRECTION PANEL, MK 216 MOD 1 & 2
CONTROL INDICATOR, MK 86 MOD Ø
4821CP
COMPUTER
INCLUDES:
DIGITAL COMPUTER MK 119 MOD 3 OR MK 152 MOD Ø OR 1
CONTROL PANEL, MK 298 MOD Ø
DIGITAL DATA RECORDER MK 19 MOD Ø
INPUT/OUTPUT CONSOLE MK 77 MOD 1
MOTOR-GENERATOR SET MK 9 MOD Ø
CONTROL TYPE 4277Ø
SIGNAL DATA CONVERTER MK 75 MOD Ø
4821IE
LIGHT-INDICATOR
4821IP
INDICATORS-CATHODE RAY TUBE
INCLUDES:
AN/SPA-25
HD-836/SPA-25
RADAR INDICATOR MK 117 MOD Ø
4821NB
TRANSFORMERS
INCLUDES:
HARPOON:
SYSTEM POWER BANKS ZEROING
4821OK
CONTROL GROUPS
INCLUDES
SHIP'S MASTER SYNCHRONIZER UNIT, AN/SPA-42A
4821OY
RADAR SET GROUPS
INCLUDES:
AN/SPG-55B
ALL ABOVE DECK COMPONENTS MOUNTED ON/IN GM DIRECTOR STRUCTURE MK 74 MOD Ø.
ALL BELOW DECK COMPONENTS IN MISSILE DETECTOR POWER AND POWER EQUIPMENT ROOMS, AND MISSILE DIRECTOR CONTROL AND EQUIPMENT ROOMS, LESS TRAINING, POWER SHARING, AND TEST EQUIPMENTS.
HIGH POWER TRANSMITTING, SWITCHING ASSEMBLY UD5Ø1
POWER SHARING ASSEMBLY, UD5ØØ
4821O3
ORDNANACE FIRE CONTROL SWITCHING EQUIPMENT
INCLUDES:
MK 6 MOD 9
MK 6 MOD 1Ø
MK 6 MOD 16
MK 6 MOD 23
MK 6 MOD 24
4821PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES:
HARPOON:
PANELS #1, #2, #3, #4 VENT FAN CONTROL
4821PS
PANEL-ALARM
INCLUDES:
BUS FAILURE ALARM SIGNAL
4821P8
POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
INCLUDES:
HARPOON:
28 VDC POWER SUPPLY
TERRIER:
BATTERY CHARGER BC-32-12
PP-2438/SPG-55A
DDG-37 CLASS
PREPARED 11-15-77

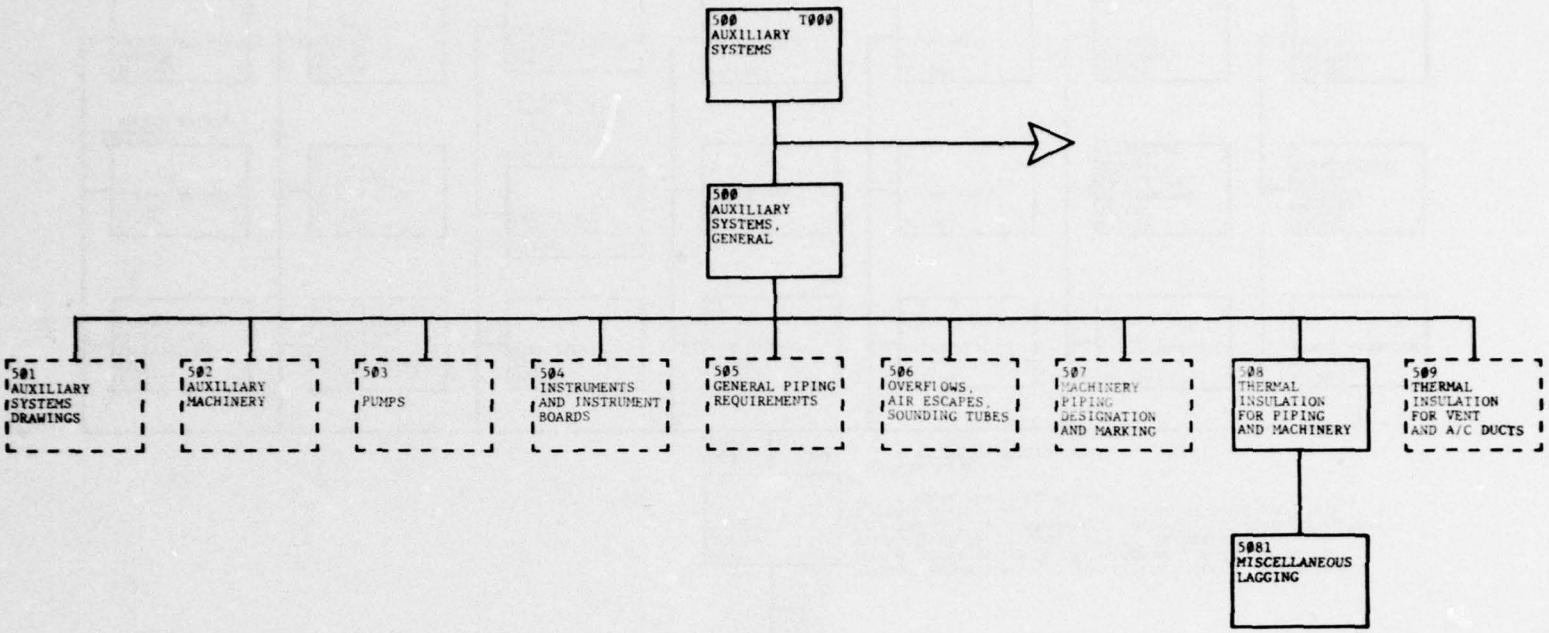

400
COMMAND AND SURVEILLANCE
480
FIRE CONTROL SYSTEMS
482
FIRE CONTROL SYSTEMS (NON-SONAR DATA BASE)
4821
MISSILE FIRE CONTROL SYSTEMS
NOTE: TWO INTERCONNECTED MK 76 MOD 6 SYSTEMS ARE INSTALLED IN THIS CLASS
INCLUDES ALL ELEMENTS OF DDG-37 CLASS HARPOON WEAPON SYSTEM (HWS) LESS LAUNCHER (7211) AND WEAPON HANDLING EQUIPMENT (7221)
DOES NOT INCLUDE: ELECTRONIC EQUIPMENT COOLING WATER SYSTEMS (5362)
4821RD
RECORDER/ REPRODUCERS
INCLUDES: AN/SPH-2
4821SA
SWITCHING UNITS
INCLUDES: HARPOON LAUNCHER SWITCHING UNIT SA-2126/SWG-1(V)
4821SM
SIMULATORS
INCLUDES: ECM MICROWAVE ASSEMBLY UD601 HARPOON TRAINER MODULE SM-749T/SWG-1(V) SIMULATOR ASSEMBLY UD600
4821TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES: HARPOON: MK 1801/SWG-1(V) TS-3632/DSM TERRIER: AN/SPA-13 AN/SPM-4 AN/SPM-5 AN/SPM-6A AN/SPM-9 AN/SPM-17 BLOWOUT PIPE ADAPTER BORESITE TELESCOPE MK 115 MOD 0 CBTV-181 CBTV-545( ) COMPUTER TEST SET MK 346 MOD 2 OR 3 CYZ/CAQI-322( ) CYZ/CAQI-350-1200( ) GUNNER'S QUADRANT PORT. BORESIGHT MAST SANBORN RECORDERS SB-1036/SSQ TRANSIT
4821T9
TEST EQUIPMENT-MISCELLANEOUS
INCLUDES: TEST ADAPTER AN/ARM-83A O AND R SPARES
4821UH
DIRECTOR-WEAPON SYSTEM
INCLUDES: GUIDED MISSILE DIRECTOR STRUCTURE MK 74 MOD 0
4821UX
RELAY-ELECTRICAL
INCLUDES: RELAY TRANSMITTER MK 67 MOD 0
4821UZ
RECORDER-ELECTRICAL AND ELECTRONIC
4821V9
VALVE-Y
4821ZZ
MISCELLANEOUS ITEMS NOT OTHERWISE CODED
INCLUDES: FIRE CONTROL CCTV SYSTEMS (REMOVAL PLANNED) LENS SYSTEM MK 5 MOD 0 TV CAMERA MK 12 MOD 0 TV INTERCONNECTING BOX MK 7 MOD 6 VIDEO AMPLIFIER/SYNCH MK 161 MOD 6 VIDEO INDICATOR MK 108 MOD 0 MK 109 MOD 2
4821Y6
ORDNANCE TOOLS AND ACCESSORIES
4821ØR
ORDALTS AND ORDNANCE MODIFICATIONS-OTHER THAN SWITCHBOARD
4821ØS
ORDALTS AND ORDNANCE MODIFICATIONS-SWITCHBOARD ONLY
48212B
BOX-ELECTRICAL
48214Q
TELEMETERING
48214T
TIMER
INCLUDES: INTERVAL TIMER MK 12 MOD 0 (MISSILE ASSY RM) TIME SIGNAL SET MK 1 MOD 1
48215G
GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
48217Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
48218Z
SWITCHES-GENERAL
INCLUDES: LEVER OPERATED SWITCHBOX
DDG-37 CLASS
PREPARED 11-15-77



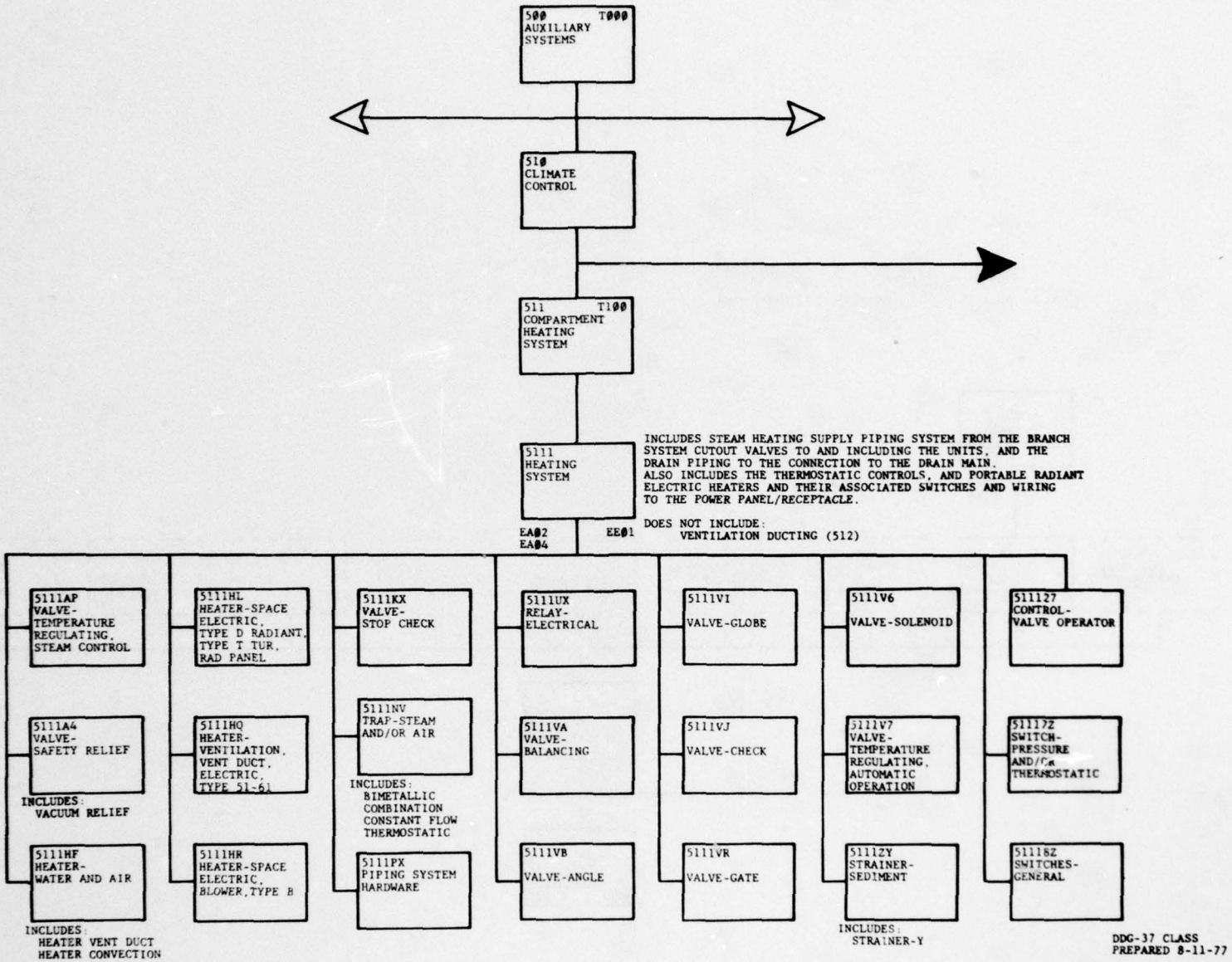


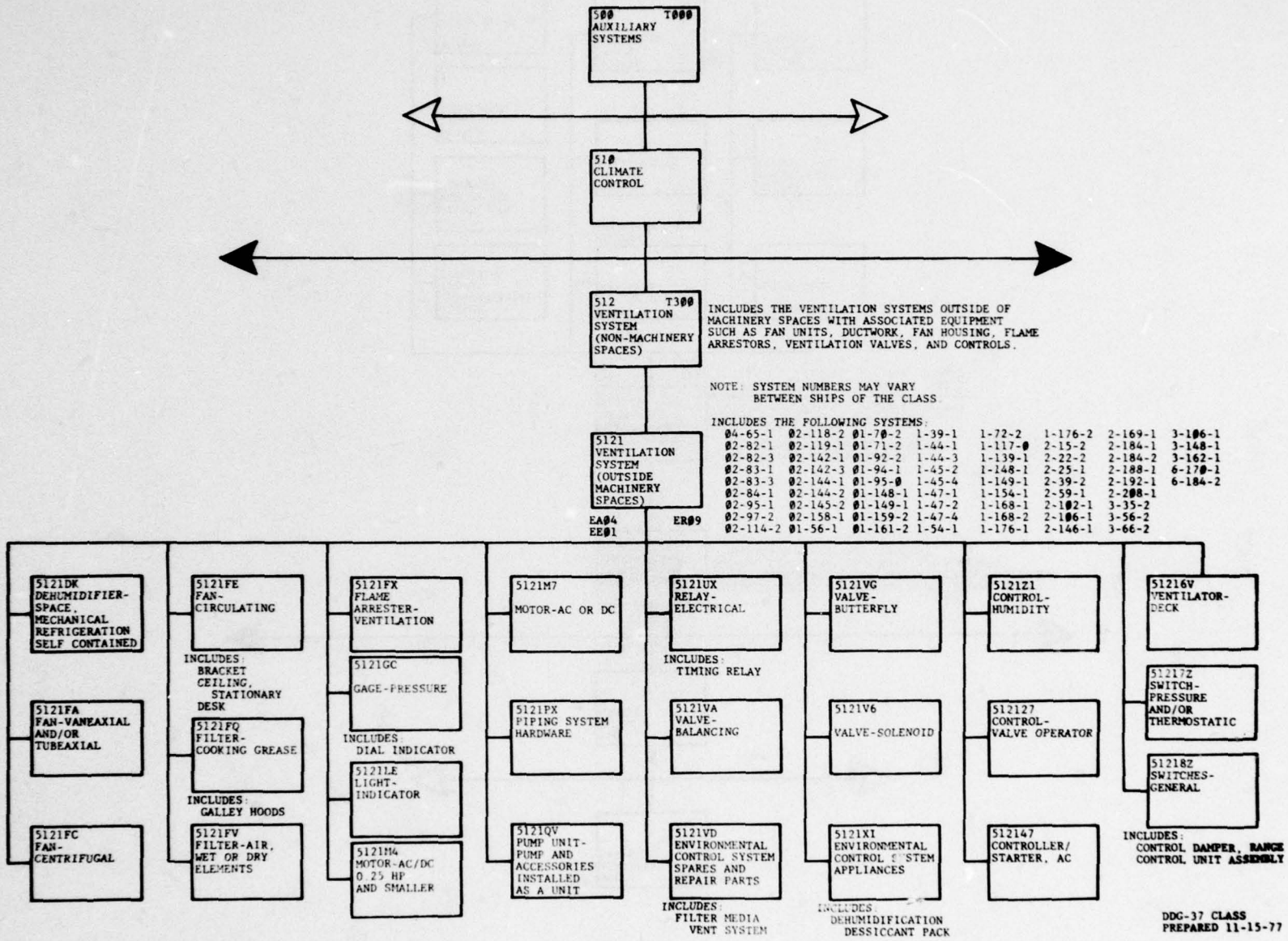
DDG-37 CLASS
PREPARED 11-15-77

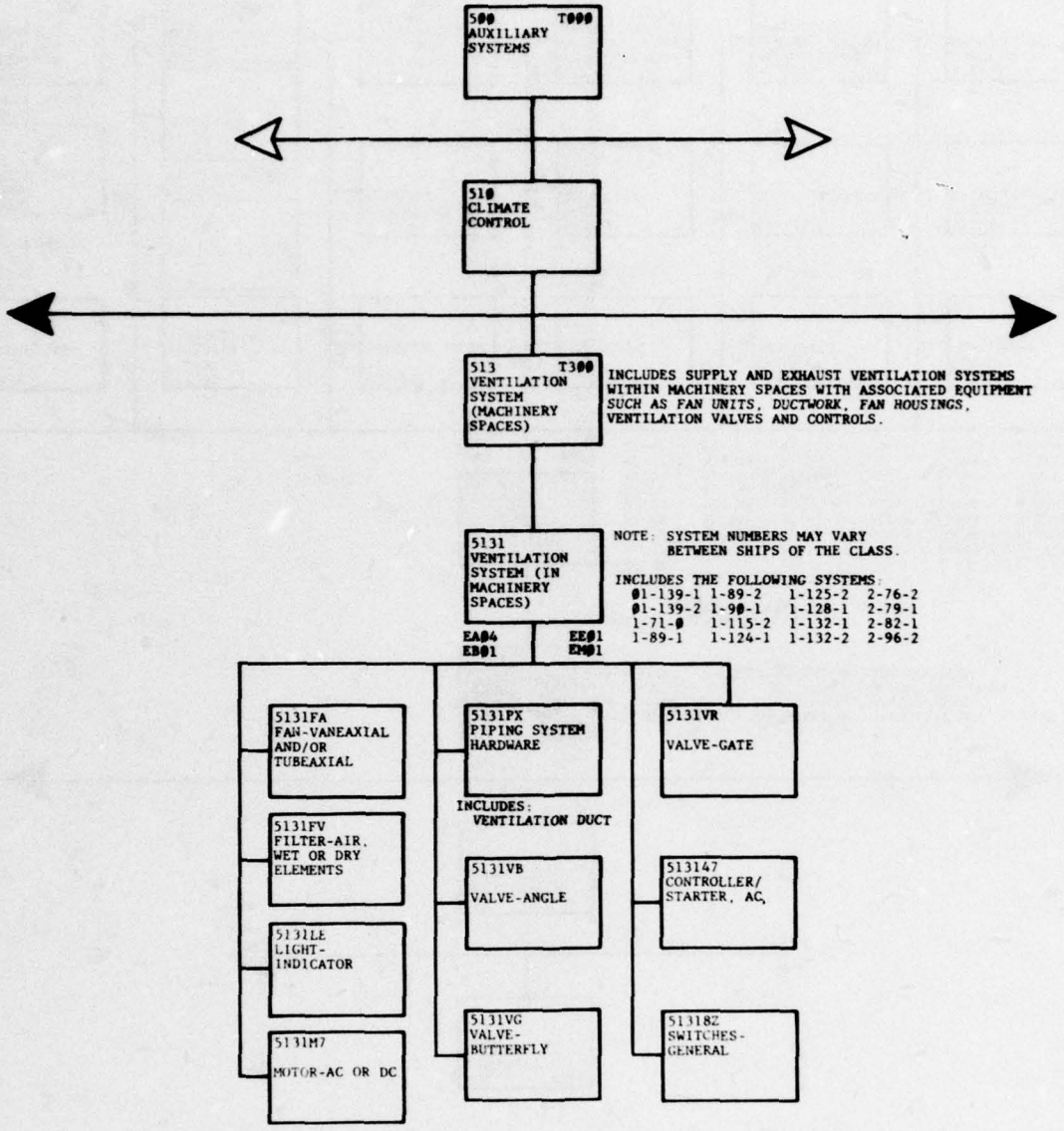

490
COMMAND AND SURVEILLANCE
490
SPECIAL PURPOSE SYSTEMS
491
ELECTRONIC TEST, CHECKOUT AND MONITORING EQUIPMENT
492
FLIGHT CONTROL AND INSTRUMENT LANDING SYSTEMS
498
COMMAND AND SURVEILLANCE OPERATING FLUIDS
499
COMMAND AND SURVEILLANCE REPAIR PARTS AND SPECIAL TOOLS
4911
ELECTRONICS TEST, CHECKOUT AND MONITORING EQUIPMENT
4921
FLIGHT DECK LIGHTING
4981
COMMAND AND SURVEILLANCE OPERATING FLUIDS
4991
REPAIR PARTS-COMMAND AND SURVEILLANCE
4992
SPECIAL TOOLS-COMMAND AND SURVEILLANCE
4911DA
DUMMY LOAD
INCLUDES:
DA-88A/U
DA-218/U
(REMOVAL PLANNED)
DA-242( )/U
DA-412( )/U
DA-515/U
4911TS
TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED
INCLUDES:
ADAPTER TEST SET MX-9407/URC-9
ALL GENERAL PURPOSE TEST EQUIPMENT (GPETE) WHICH IS NOT DEDICATED TO A SPECIFIC SYSTEM AND LISTED THEREIN
AN/SSM-4A
TEST EVALUATION AND MONITORING SYSTEM
4911Y3
TEST, MEASURING AND INDICATING EQUIPMENT
INCLUDES ALL GENERAL PURPOSE ELECTRICAL MEASURING DEVICES WHICH ARE NOT PART OF A SYSTEM. THE NAVELEX COSAL IS THE PRIMARY SOURCE LISTING OF EQUIPMENT INCLUDED IN THIS CATEGORY.
49110I
OSCILLATORS
INCLUDES:
FREQUENCY STANDARDS
AM-2123/U
AN/URQ-10( )
DISTRIBUTION CABLES
4921FU
FIXTURE-LIGHTING
INCLUDES:
APPROACH
DECK EDGE
FLOODLIGHT
HELO LINE-UP
4921G5
SEARCHLIGHT-SIGNAL
4921LE
LIGHT-INDICATOR
4921NB
TRANSFORMERS
INCLUDES:
POWER ISOLATION
4921PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
4921UK
CABLE ASSEMBLY-ELECTRICAL
4921UX
RELAY-ELECTRICAL
49211F
FUSE UNIT ASSEMBLY
49211T
CONNECTOR-ELECTRICAL
49212B
BOX-ELECTRICAL
49218Z
SWITCHES-GENERAL
4991ZZ
MISCELLANEOUS ITEMS NOT OTHERWISE CODED
INCLUDES:
REPAIR PARTS
4992S6
SHOP EQUIPMENT AND ACCESSORIES ON SHIP
INCLUDES:
GYRO COMPASS
SPECIAL HAND TOOLS
4992Y6
ORDNANCE TOOLS AND ACCESSORIES
DDG-37 CLASS
PREPARED 11-15-77



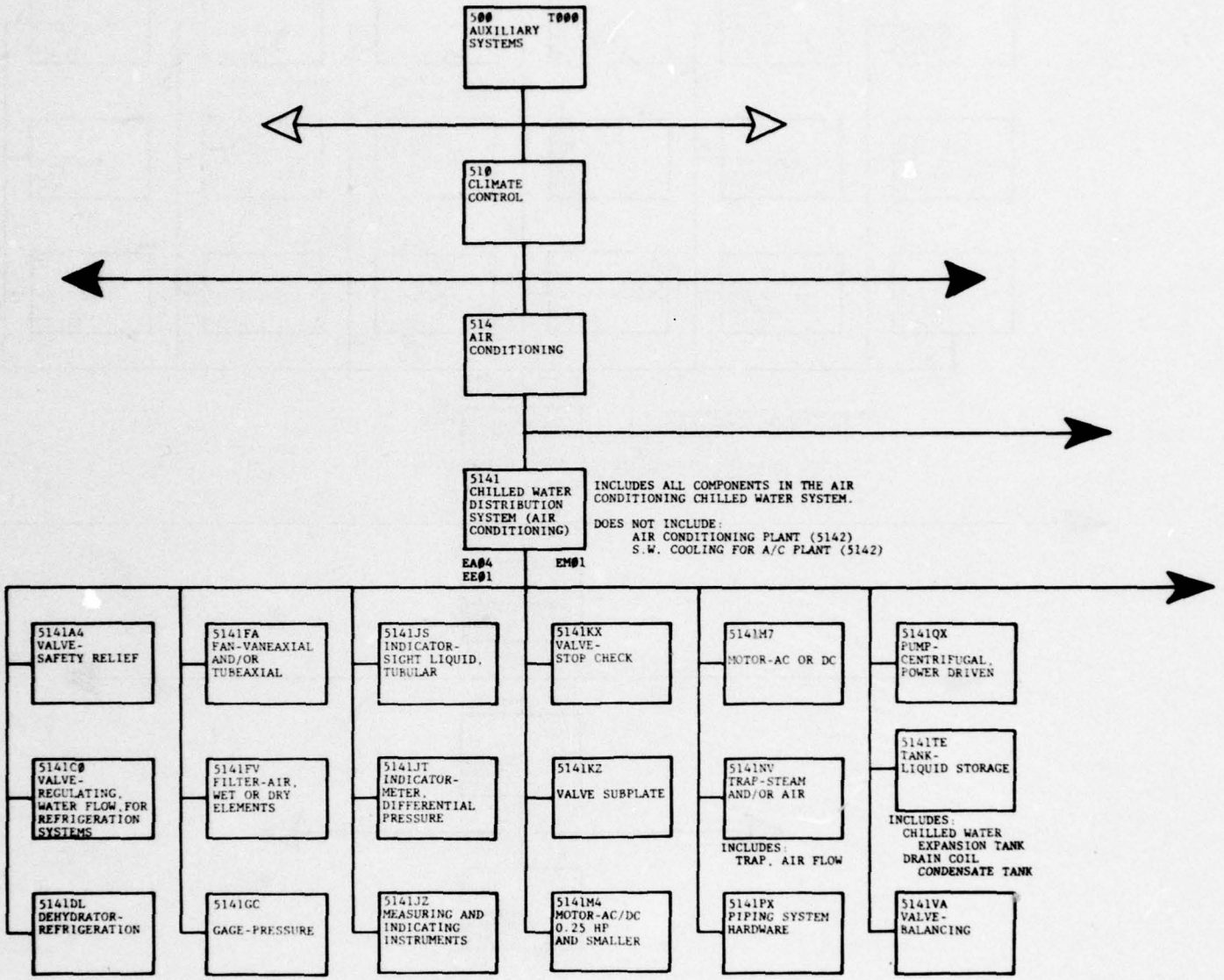
DDG-37 CLASS
PREPARED 8-11-77


500 T000
AUXILIARY SYSTEMS
510
CLIMATE CONTROL
511 T100
COMPARTMENT HEATING SYSTEM
5111
HEATING SYSTEM
INCLUDES STEAM HEATING SUPPLY PIPING SYSTEM FROM THE BRANCH SYSTEM CUTOUT VALVES TO AND INCLUDING THE UNITS, AND THE DRAIN PIPING TO THE CONNECTION TO THE DRAIN MAIN. ALSO INCLUDES THE THERMOSTATIC CONTROLS, AND PORTABLE RADIANT ELECTRIC HEATERS AND THEIR ASSOCIATED SWITCHES AND WIRING TO THE POWER PANEL/RECEPTACLE.
DOES NOT INCLUDE:
VENTILATION DUCTING (512)
EA02
EA04
EE01
5111AP
VALVE-TEMPERATURE REGULATING, STEAM CONTROL
5111A4
VALVE-SAFETY RELIEF
INCLUDES:
VACUUM RELIEF
5111HF
HEATER-WATER AND AIR
INCLUDES:
HEATER VENT DUCT
HEATER CONVECTION
5111HL
HEATER-SPACE ELECTRIC, TYPE D RADIANT, TYPE T TUR, RAD PANEL
5111HQ
HEATER-VENTILATION, VENT DUCT, ELECTRIC, TYPE 51-61
5111HR
HEATER-SPACE ELECTRIC, BLOWER, TYPE B
5111KX
VALVE-STOP CHECK
5111NV
TRAP-STEAM AND/OR AIR
INCLUDES:
BIMETALLIC
COMBINATION
CONSTANT FLOW
THERMOSTATIC
5111PX
PIPING SYSTEM HARDWARE
5111UX
RELAY-ELECTRICAL
5111VA
VALVE-BALANCING
5111VB
VALVE-ANGLE
5111VI
VALVE-GLOBE
5111VJ
VALVE-CHECK
5111VR
VALVE-GATE
5111V6
VALVE-SOLENOID
5111V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
5111ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER-Y
511127
CONTROL-VALVE OPERATOR
51117Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
51118Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 8-11-77

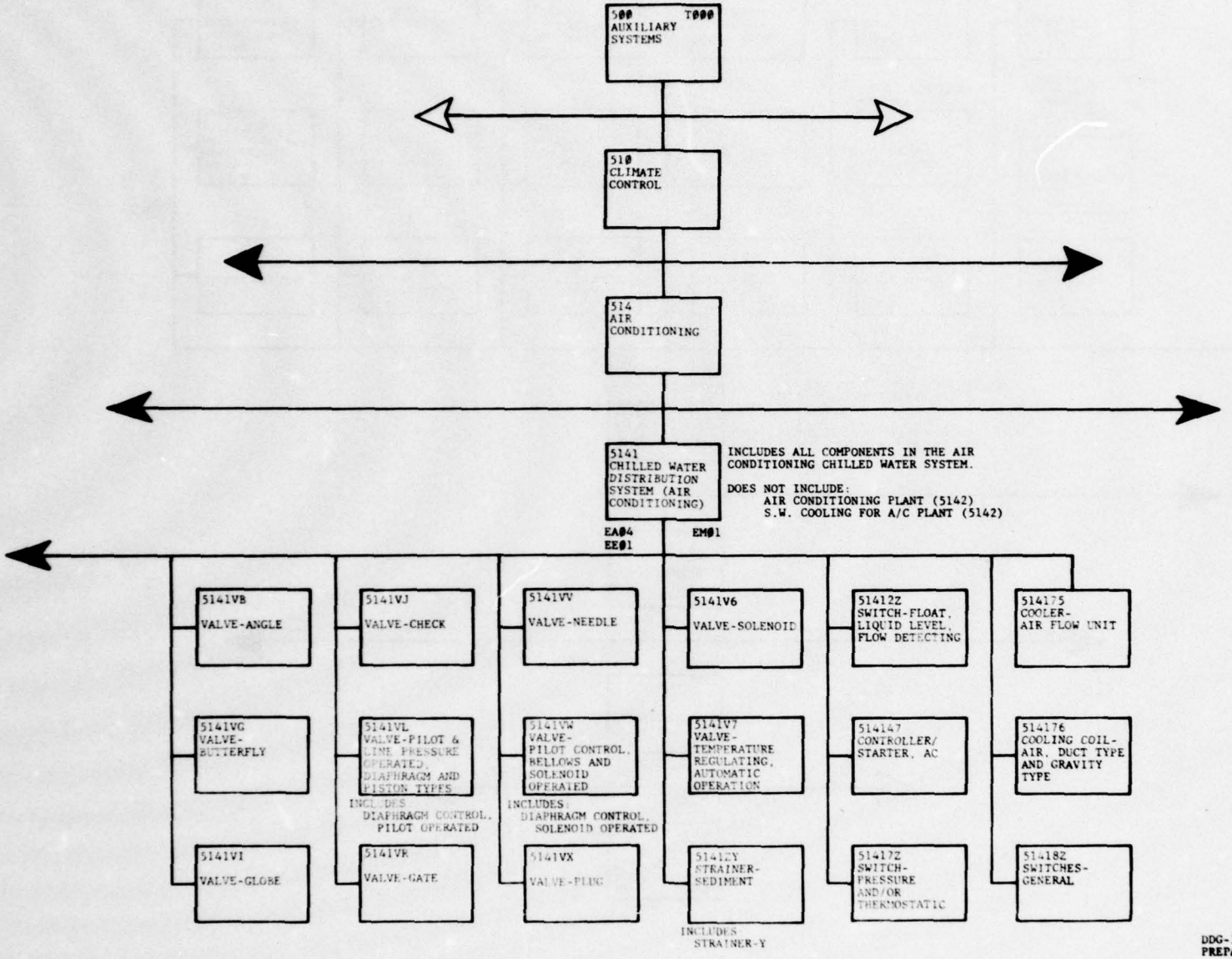

500 T000
AUXILIARY SYSTEMS
510
CLIMATE CONTROL
512 T300
VENTILATION SYSTEM (NON-MACHINERY SPACES)
INCLUDES THE VENTILATION SYSTEMS OUTSIDE OF MACHINERY SPACES WITH ASSOCIATED EQUIPMENT SUCH AS FAN UNITS, DUCTWORK, FAN HOUSING, FLAME ARRESTORS, VENTILATION VALVES, AND CONTROLS.
NOTE: SYSTEM NUMBERS MAY VARY BETWEEN SHIPS OF THE CLASS.
INCLUDES THE FOLLOWING SYSTEMS:
04-65-1 02-118-2 01-70-2 1-39-1 1-72-2 1-176-2 2-169-1 3-106-1
02-82-1 02-119-1 01-71-2 1-44-1 1-117-0 2-15-2 2-184-1 3-148-1
02-82-3 02-142-1 01-92-2 1-44-3 1-139-1 2-22-2 2-184-2 3-162-1
02-83-1 02-142-3 01-94-1 1-45-2 1-148-1 2-25-1 2-188-1 6-170-1
02-83-3 02-144-1 01-95-0 1-45-4 1-149-1 2-39-2 2-192-1 6-184-2
02-84-1 02-144-2 01-148-1 1-47-1 1-154-1 2-59-1 2-208-1
02-95-1 02-145-2 01-149-1 1-47-2 1-168-1 2-102-1 3-35-2
02-97-2 02-158-1 01-159-2 1-47-4 1-168-2 2-106-1 3-56-2
02-114-2 01-56-1 01-161-2 1-54-1 1-176-1 2-146-1 3-66-2
5121 VENTILATION SYSTEM (OUTSIDE MACHINERY SPACES)
EA04 EE01
ER09
5121DK DEHUMIDIFIER-SPACE, MECHANICAL REFRIGERATION SELF CONTAINED
5121FA FAN-VANEAXIAL AND/OR TUBEAXIAL
5121FC FAN-CENTRIFUGAL
5121FE FAN-CIRCULATING
INCLUDES: BRACKET CEILING, STATIONARY DESK
5121FQ FILTER-COOKING GREASE
INCLUDES: GALLEY HOODS
5121FV FILTER-AIR, WET OR DRY ELEMENTS
5121FX FLAME ARRESTER-VENTILATION
5121GC GAGE-PRESSURE
INCLUDES: DIAL INDICATOR
5121LE LIGHT-INDICATOR
5121M4 MOTOR-AC/DC 0.25 HP AND SMALLER
5121M7 MOTOR-AC OR DC
5121PX PIPING SYSTEM HARDWARE
5121QV PUMP UNIT-PUMP AND ACCESSORIES INSTALLED AS A UNIT
5121UX RELAY-ELECTRICAL
INCLUDES: TIMING RELAY
5121VA VALVE-BALANCING
5121VD ENVIRONMENTAL CONTROL SYSTEM SPARES AND REPAIR PARTS
INCLUDES: FILTER MEDIA VENT SYSTEM
5121VG VALVE-BUTTERFLY
5121V6 VALVE-SOLENOID
5121XI ENVIRONMENTAL CONTROL SYSTEM APPLIANCES
INCLUDES: DEHUMIDIFICATION DESSICCANT PACK
5121Z1 CONTROL-HUMIDITY
5121Z7 CONTROL-VALVE OPERATOR
5121Z7 CONTROLLER/STARTER, AC
51216V VENTILATOR-DECK
51217Z SWITCH-PRESSURE AND/OR THERMOSTATIC
51218Z SWITCHES-GENERAL
INCLUDES: CONTROL DAMPER, RANGE CONTROL UNIT ASSEMBLY
DDG-37 CLASS
PREPARED 11-15-77



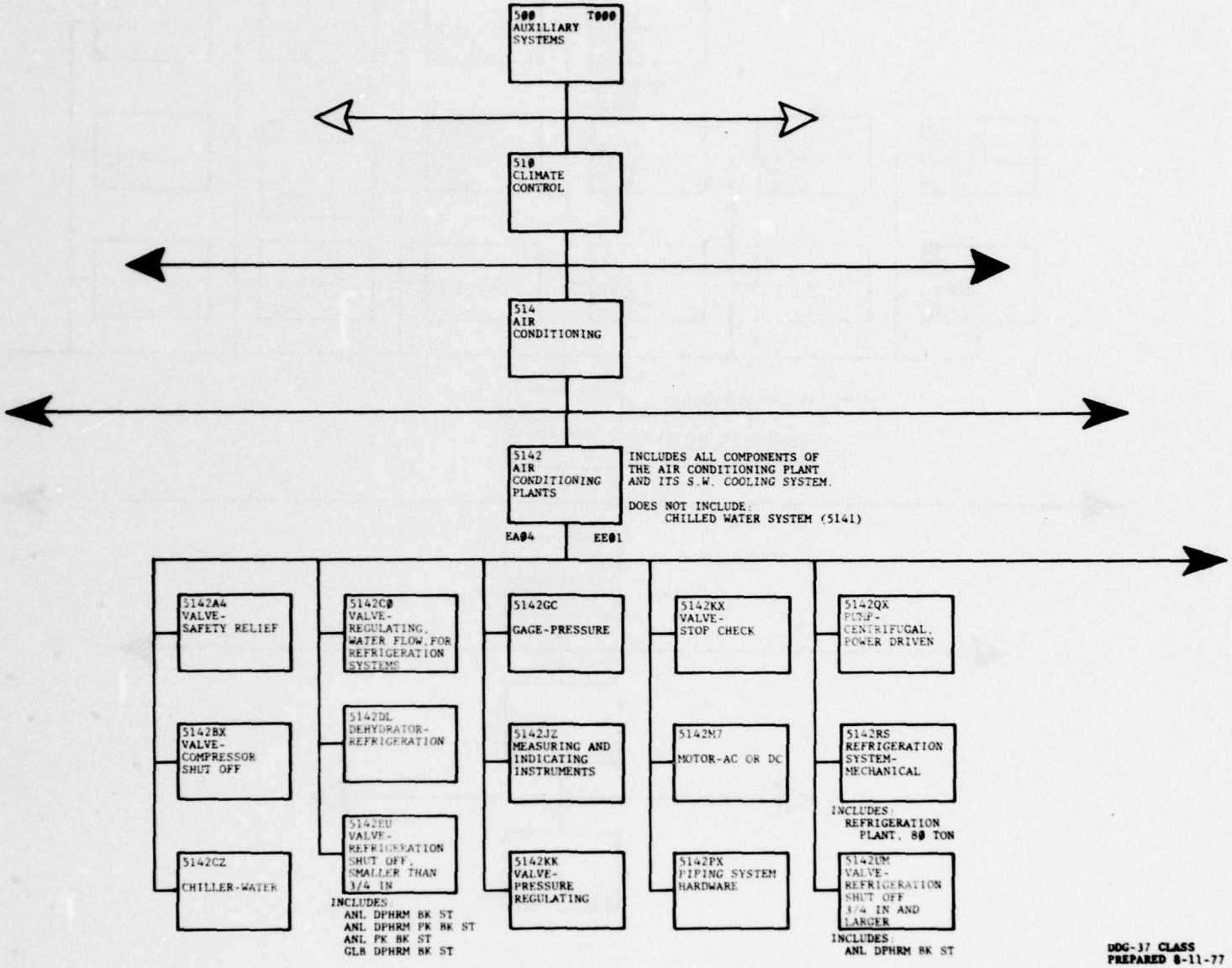
DDG-37 CLASS
PREPARED 11-15-77



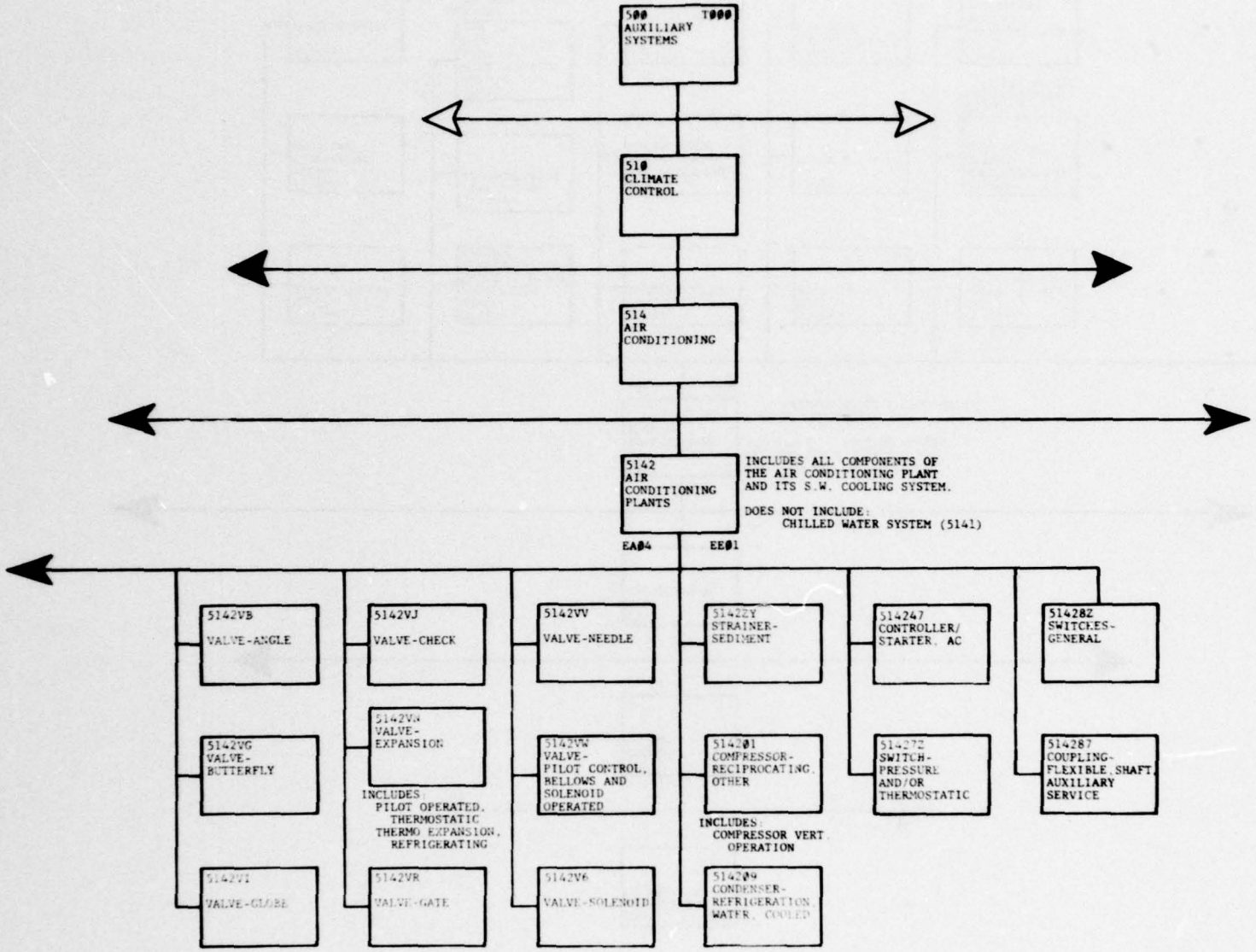
DDG-37 CLASS
PREPARED 8-11-77



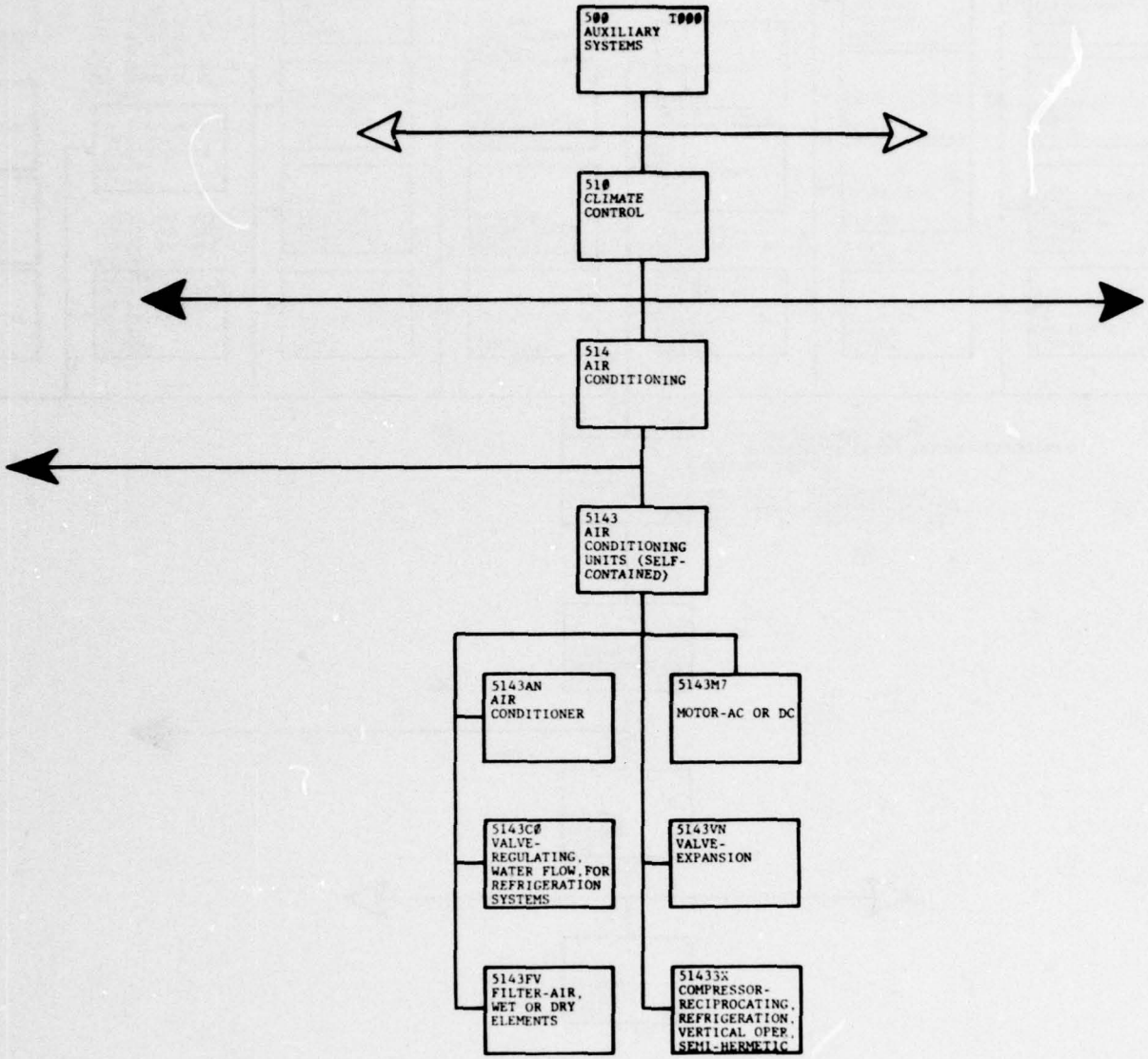
DDG-37 CLASS
PREPARED 8-11-77



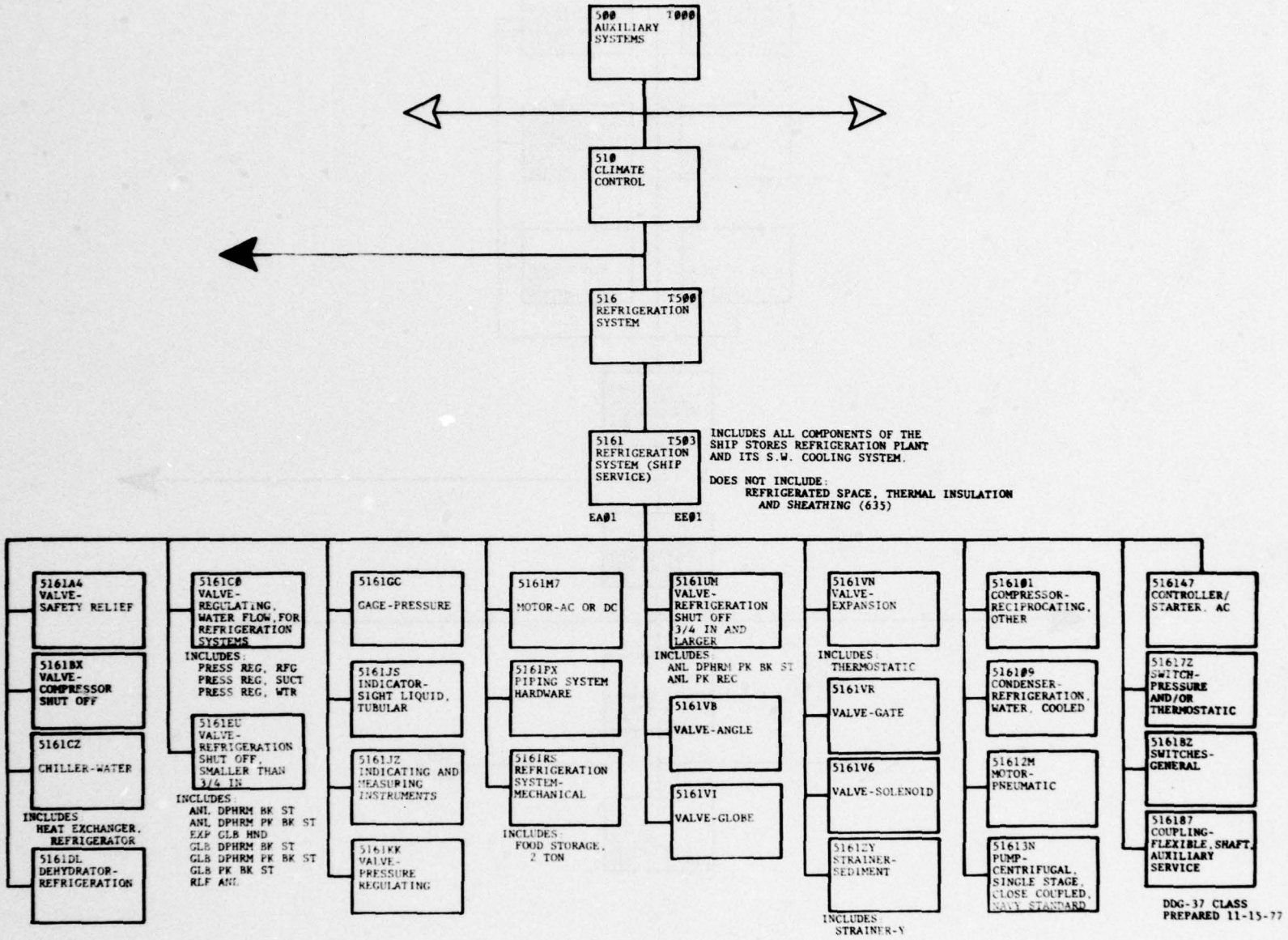
DDG-37 CLASS
PREPARED 8-11-77

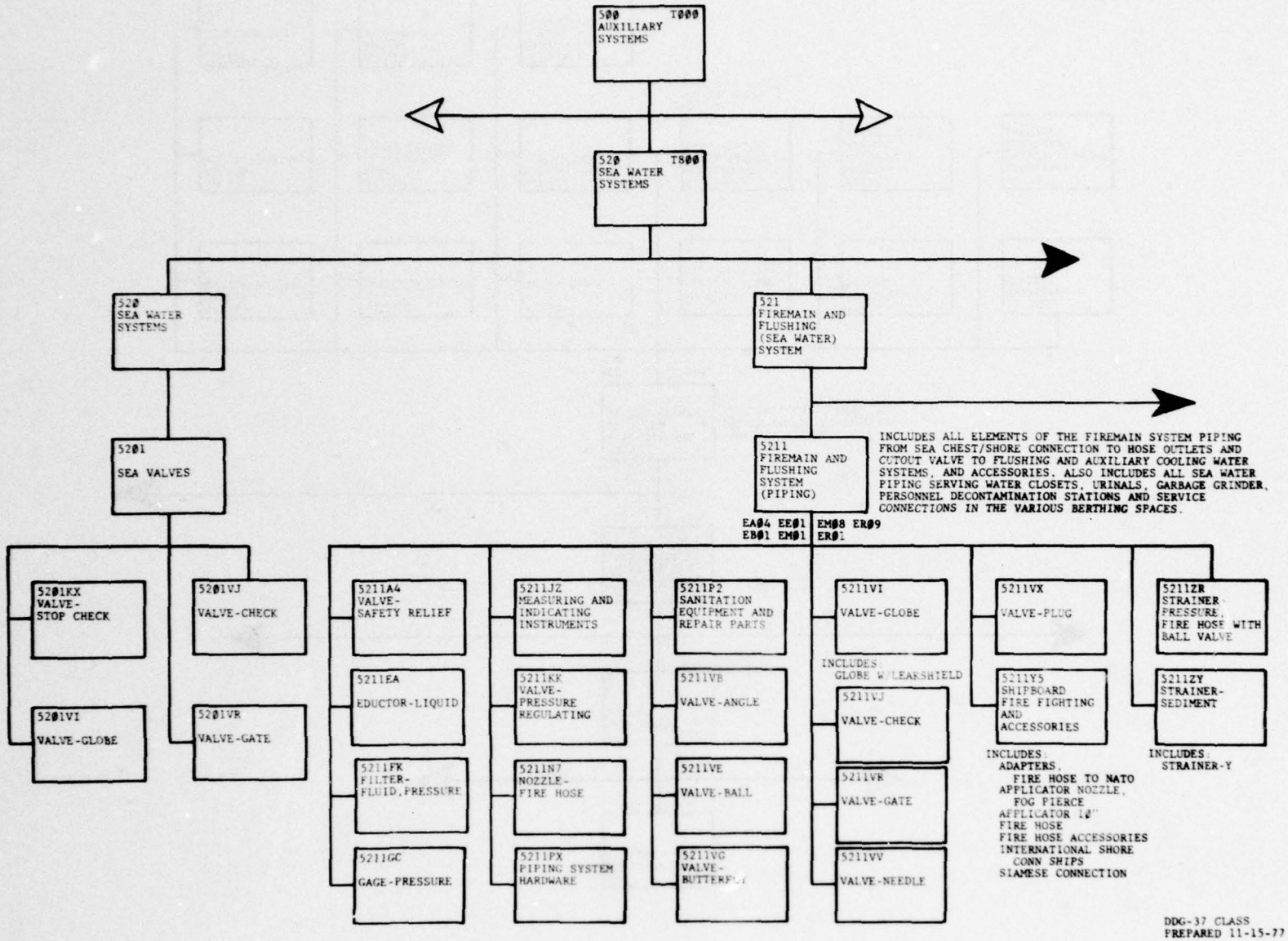


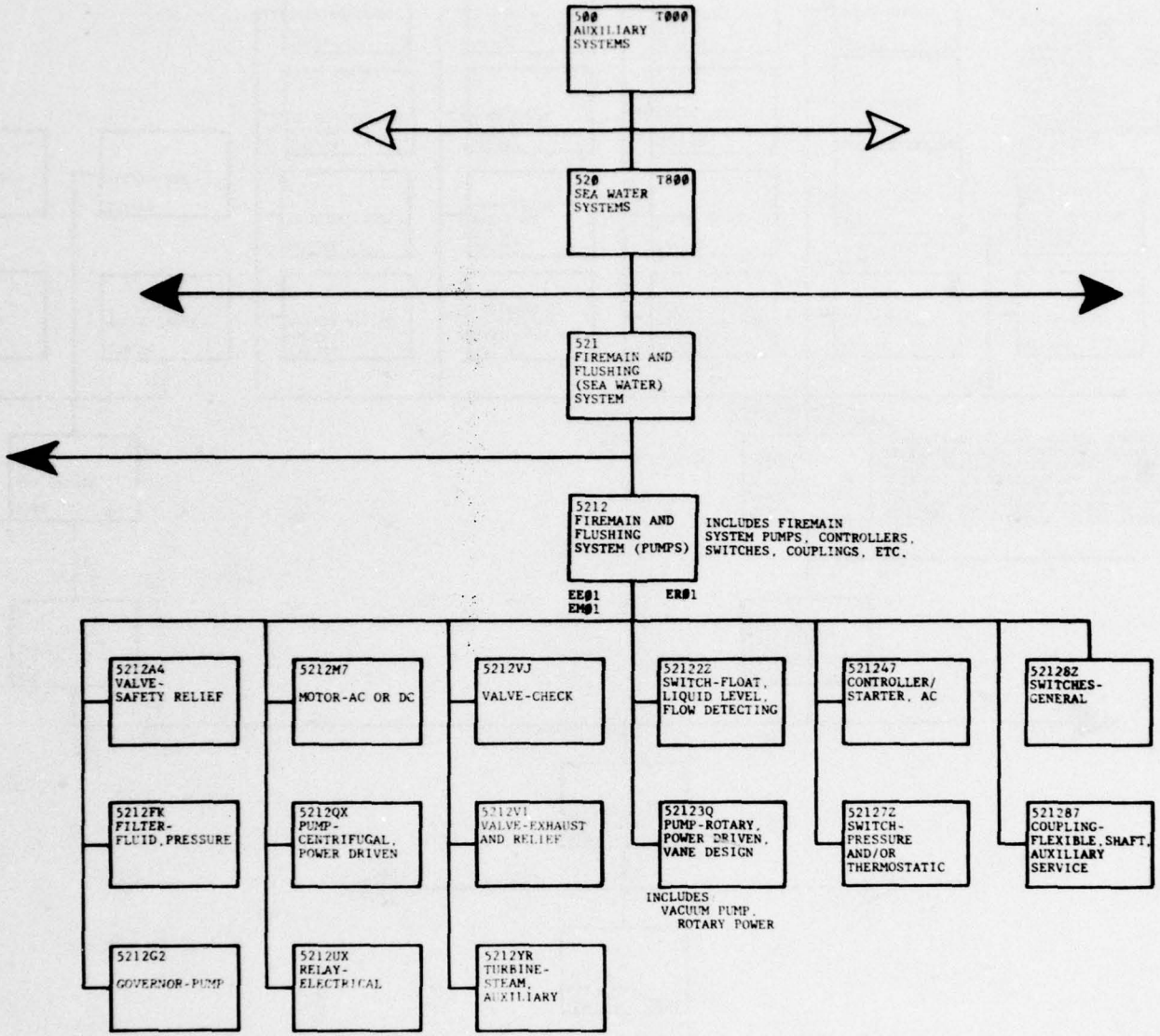
DDG-37 CLASS
PREPARED 8-11-77



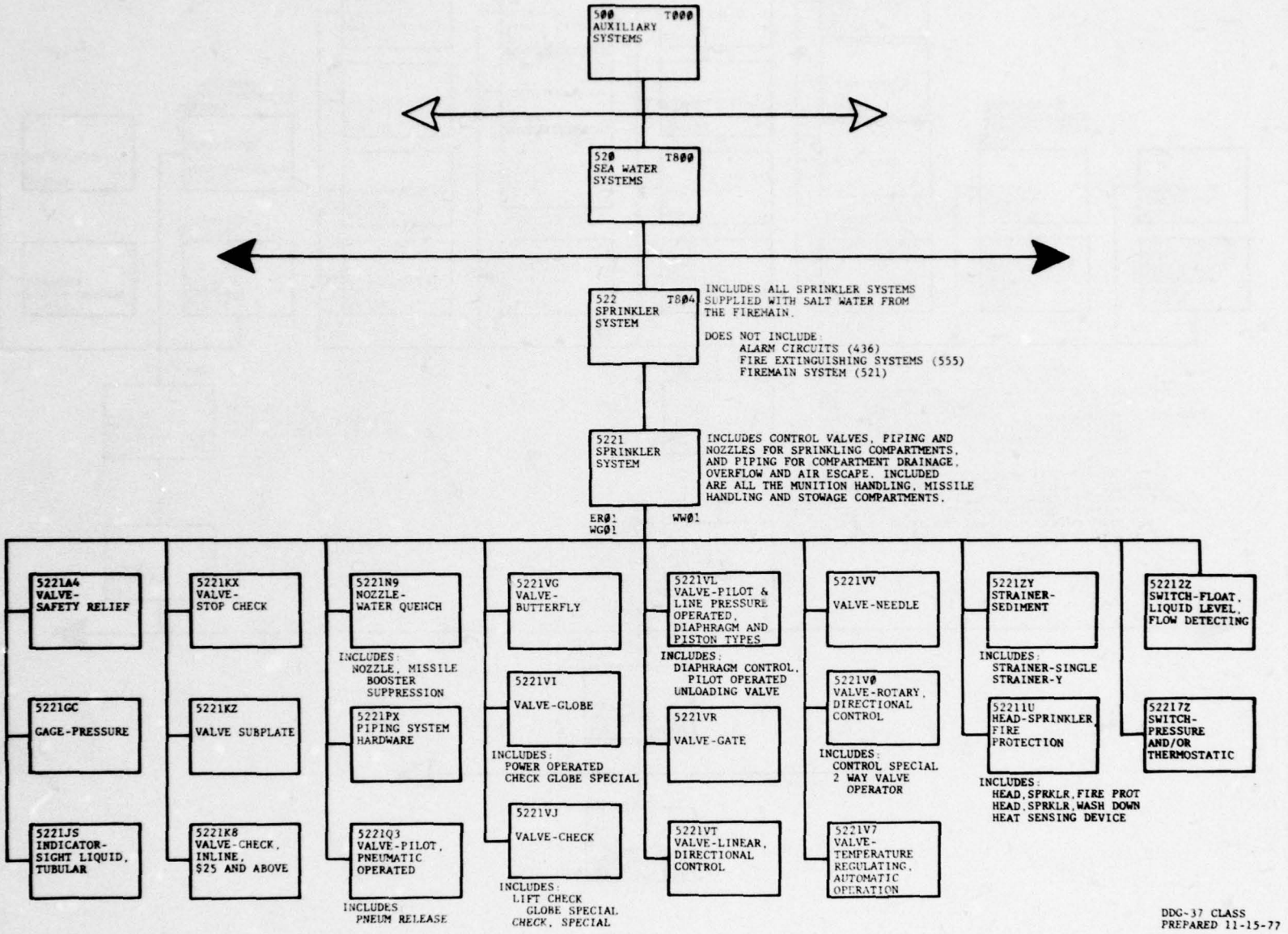
DDC-37 CLASS
PREPARED 8-11-77

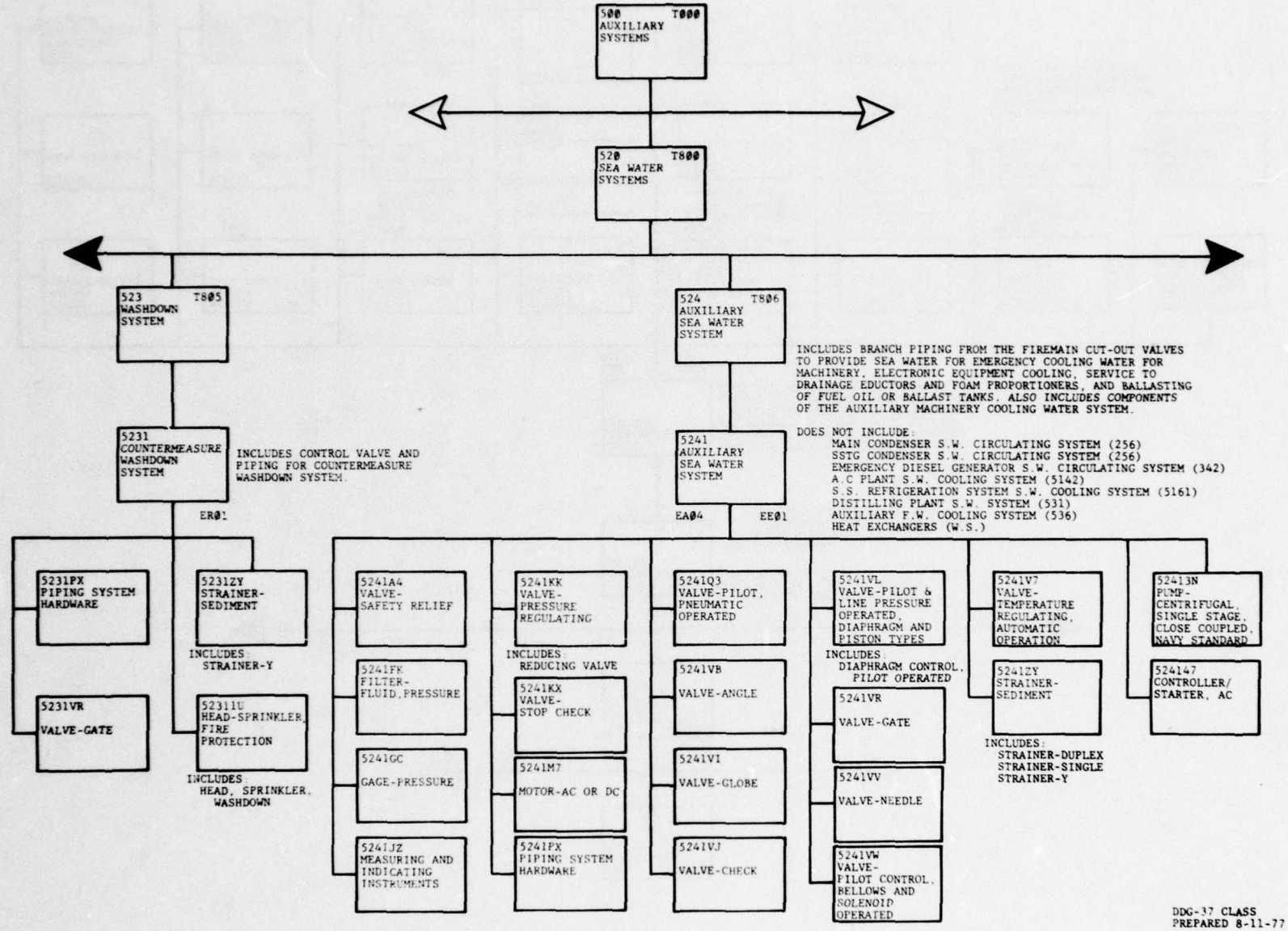

500 T000
AUXILIARY SYSTEMS
510
CLIMATE CONTROL
516 T500
REFRIGERATION SYSTEM
5161 T503
REFRIGERATION SYSTEM (SHIP SERVICE)
INCLUDES ALL COMPONENTS OF THE SHIP STORES REFRIGERATION PLANT AND ITS S.W. COOLING SYSTEM.
DOES NOT INCLUDE: REFRIGERATED SPACE, THERMAL INSULATION AND SHEATHING (635)
EA01
EE01
5161A4 VALVE-SAFETY RELIEF
5161BX VALVE-COMPRESSOR SHUT OFF
5161CZ CHILLER-WATER
INCLUDES HEAT EXCHANGER, REFRIGERATOR
5161DL DEHYDRATOR-REFRIGERATION
5161C0 VALVE-REGULATING, WATER FLOW, FOR REFRIGERATION SYSTEMS
INCLUDES: PRESS REG, RFG PRESS REG, SUCT PRESS REG, WTR
5161EU VALVE-REFRIGERATION SHUT OFF, SMALLER THAN 3/4 IN
INCLUDES ANL DPHRM BK ST ANL DPHRM PK BK ST EXP GLB HND GLB DPHRM BK ST GLB DPHRM PK BK ST GLB PK BK ST RLF ANL
5161GC GAGE-PRESSURE
5161JS INDICATOR-SIGHT LIQUID, TUBULAR
5161JZ INDICATING AND MEASURING INSTRUMENTS
5161KK VALVE-PRESSURE REGULATING
5161M7 MOTOR-AC OR DC
5161PX PIPING SYSTEM HARDWARE
5161RS REFRIGERATION SYSTEM-MECHANICAL
INCLUDES FOOD STORAGE, 2 TON
5161UM VALVE-REFRIGERATION SHUT OFF 3/4 IN AND LARGER
INCLUDES ANL DPHRM PK BK ST ANL PK REC
5161VB VALVE-ANGLE
5161VI VALVE-GLOBE
5161VN VALVE-EXPANSION
INCLUDES THERMOSTATIC
5161VR VALVE-GATE
5161V6 VALVE-SOLENOID
5161ZY STRAINER-SEDIMENT
INCLUDES STRAINER-Y
5161#1 COMPRESSOR-RECIPROCATING, OTHER
5161#9 CONDENSER-REFRIGERATION, WATER, COOLED
5161M MOTOR-PNEUMATIC
5161N PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE COUPLED, NAVY STANDARD
5161Q7 CONTROLLER/STARTER, AC
5161Z SWITCH-PRESSURE AND/OR THERMOSTATIC
5161BZ SWITCHES-GENERAL
5161B7 COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
DDG-37 CLASS
PREPARED 11-15-77

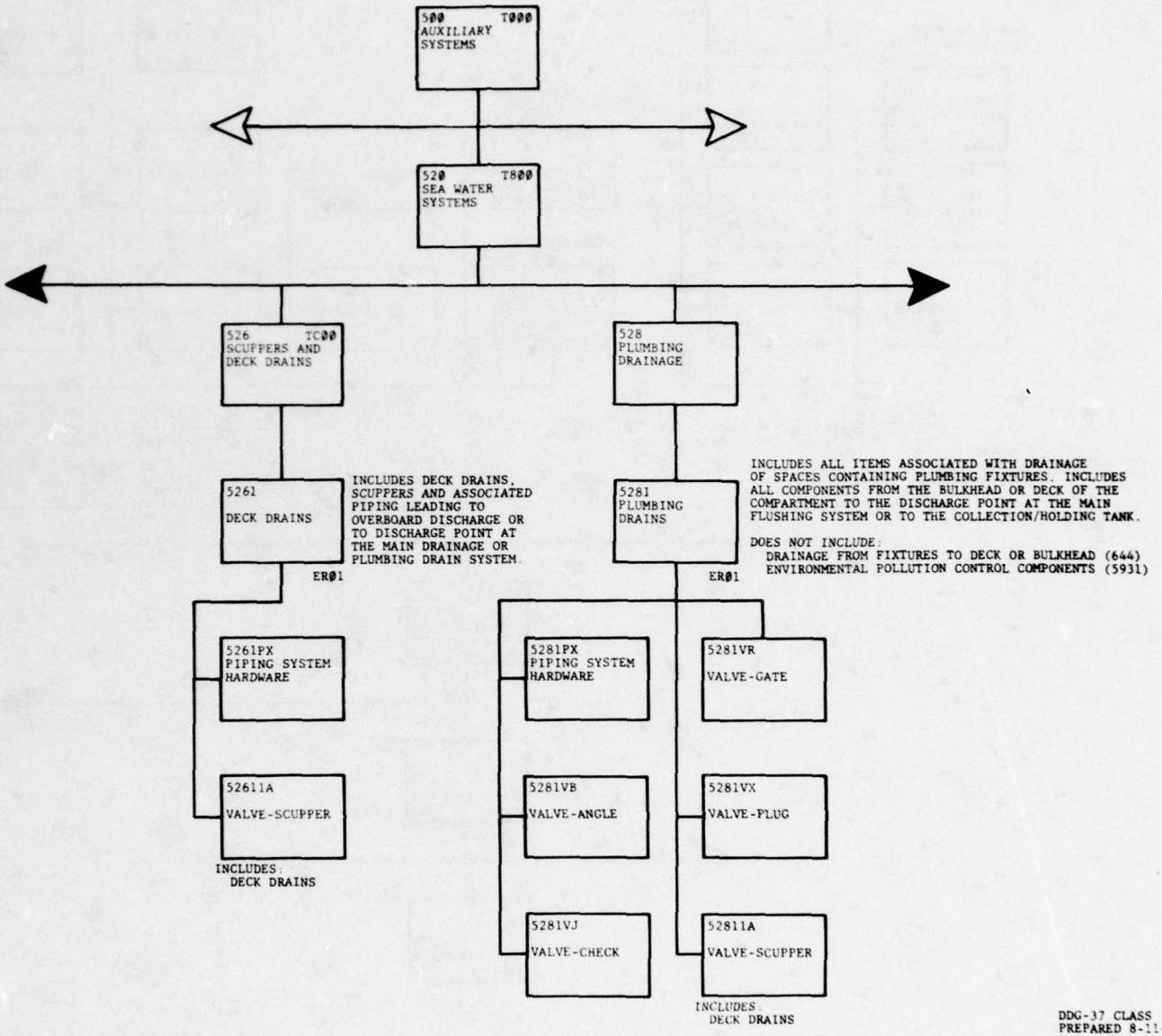

500 T000
AUXILIARY SYSTEMS
520 T800
SEA WATER SYSTEMS
520
SEA WATER SYSTEMS
521
FIREMAIN AND FLUSHING (SEA WATER) SYSTEM
5201
SEA VALVES
5211
FIREMAIN AND FLUSHING SYSTEM (PIPING)
INCLUDES ALL ELEMENTS OF THE FIREMAIN SYSTEM PIPING FROM SEA CHEST/SHORE CONNECTION TO HOSE OUTLETS AND CUTOUT VALVE TO FLUSHING AND AUXILIARY COOLING WATER SYSTEMS, AND ACCESSORIES. ALSO INCLUDES ALL SEA WATER PIPING SERVING WATER CLOSETS, URINALS, GARBAGE GRINDER, PERSONNEL DECONTAMINATION STATIONS AND SERVICE CONNECTIONS IN THE VARIOUS BERTHING SPACES.
EA04 EE01 EM08 ER09
EB01 EM01 ER01
5201KX VALVE-STOP CHECK
5201VJ VALVE-CHECK
5201VI VALVE-GLOBE
5201VR VALVE-GATE
5211A4 VALVE-SAFETY RELIEF
5211EA EDUCTOR-LIQUID
5211FK FILTER-FLUID, PRESSURE
5211GC GAGE-PRESSURE
5211JZ MEASURING AND INDICATING INSTRUMENTS
5211KK VALVE-PRESSURE REGULATING
5211N7 NOZZLE-FIRE HOSE
5211PX PIPING SYSTEM HARDWARE
5211P2 SANITATION EQUIPMENT AND REPAIR PARTS
5211VB VALVE-ANGLE
5211VE VALVE-BALL
5211VG VALVE-BUTTERFLY
5211VI VALVE-GLOBE
INCLUDES: GLOBE W/LEAKSHIELD
5211VJ VALVE-CHECK
5211VR VALVE-GATE
5211VV VALVE-NEEDLE
5211VX VALVE-PLUG
5211Y5 SHIPBOARD FIRE FIGHTING AND ACCESSORIES
INCLUDES: ADAPTERS, FIRE HOSE TO NATO APPLICATOR NOZZLE, FOG PIERCE APPLICATOR 1½" FIRE HOSE FIRE HOSE ACCESSORIES INTERNATIONAL SHORE CONN SHIPS SIAMESE CONNECTION
5211ZR STRAINER-PRESSURE, FIRE HOSE WITH BALL VALVE
5211ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-Y
DDG-37 CLASS
PREPARED 11-15-77



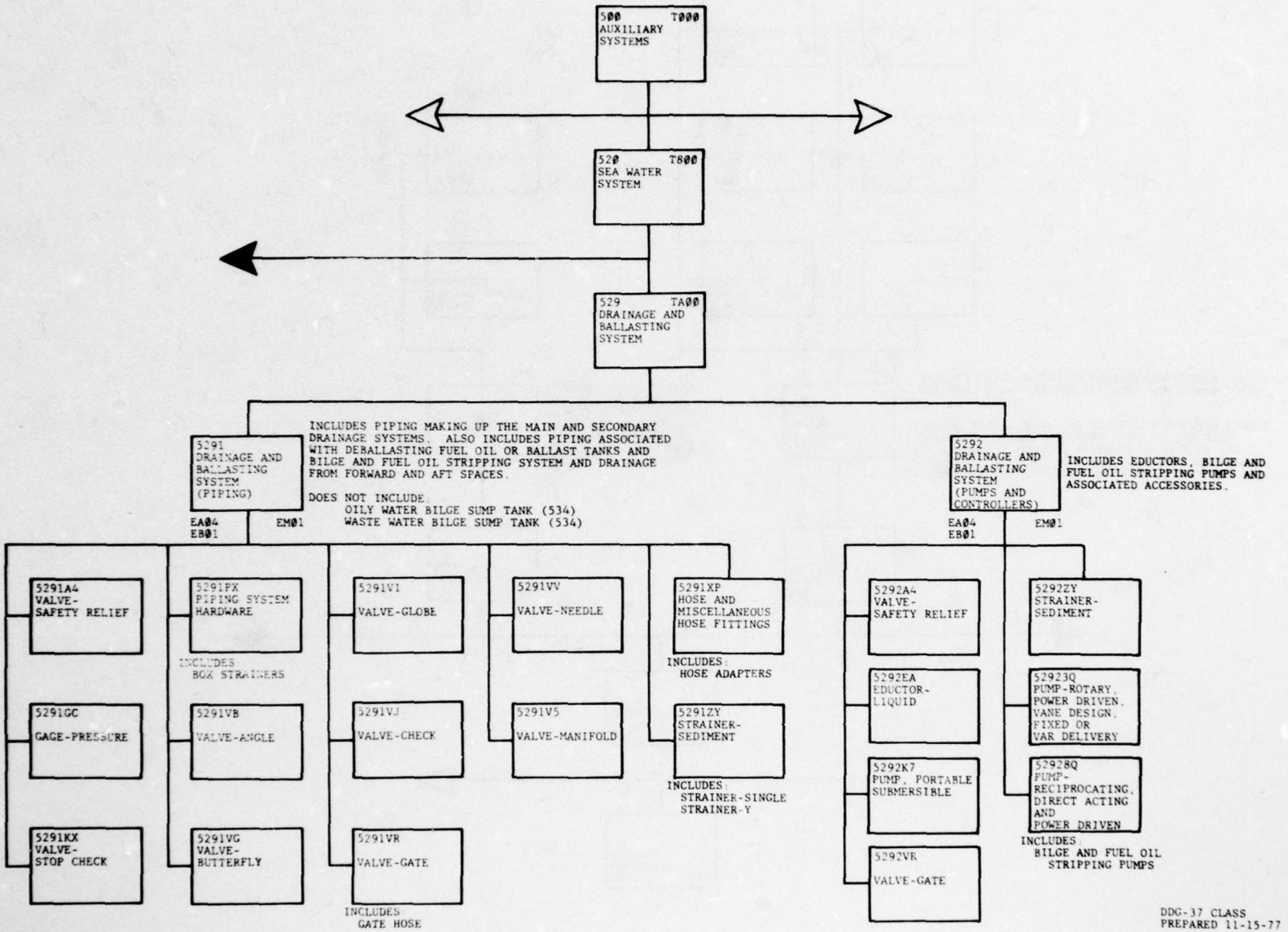
DDG-37 CLASS
PREPARED 11-30-77

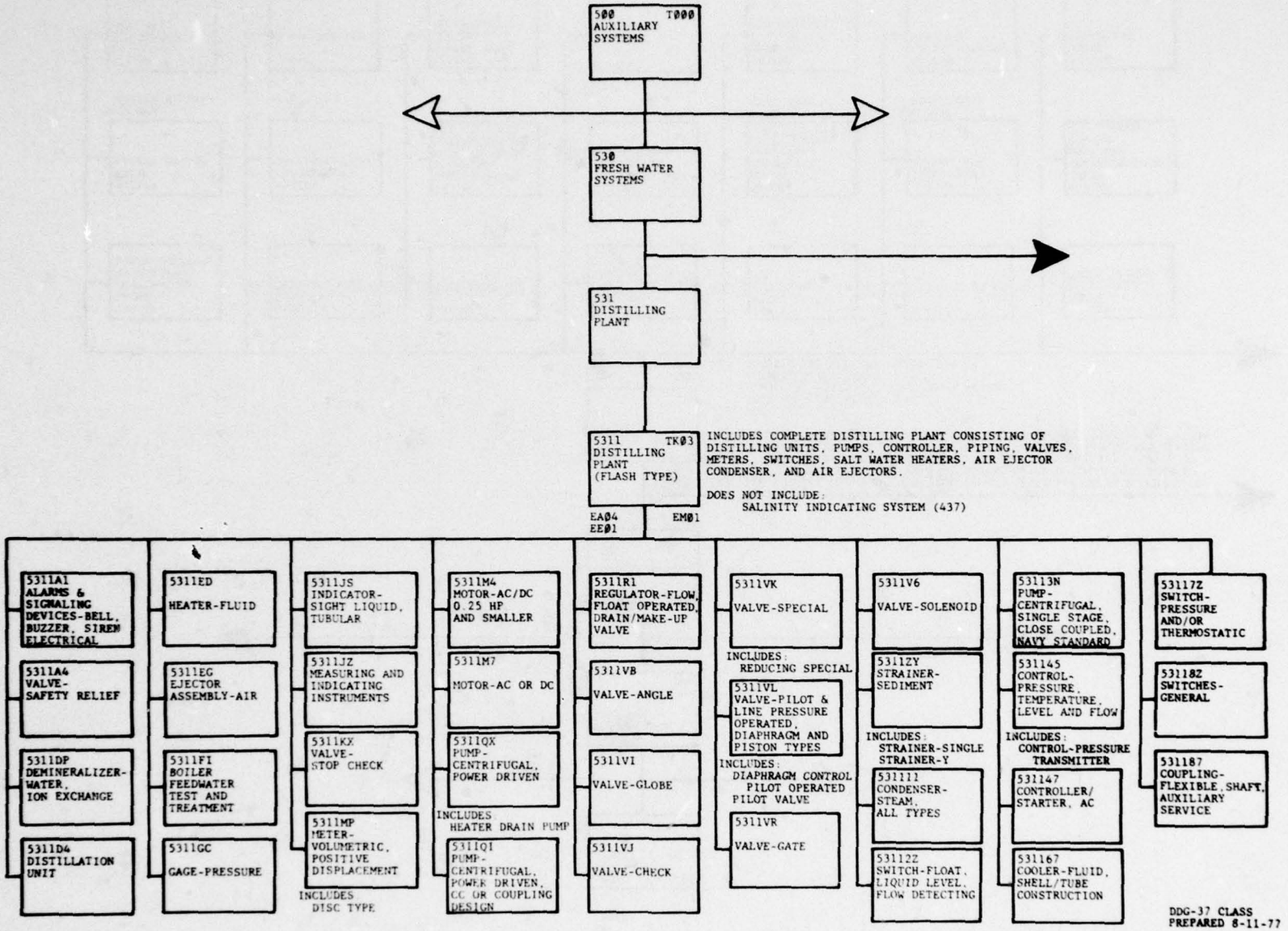

500 T000
AUXILIARY SYSTEMS
520 T800
SEA WATER SYSTEMS
522 T804
SPRINKLER SYSTEM
INCLUDES ALL SPRINKLER SYSTEMS SUPPLIED WITH SALT WATER FROM THE FIREMAIN.
DOES NOT INCLUDE:
ALARM CIRCUITS (436)
FIRE EXTINGUISHING SYSTEMS (555)
FIREMAIN SYSTEM (521)
5221 SPRINKLER SYSTEM
INCLUDES CONTROL VALVES, PIPING AND NOZZLES FOR SPRINKLING COMPARTMENTS, AND PIPING FOR COMPARTMENT DRAINAGE, OVERFLOW AND AIR ESCAPE. INCLUDED ARE ALL THE MUNITION HANDLING, MISSILE HANDLING AND STOWAGE COMPARTMENTS.
ER01
WG01
WW01
5221A4 VALVE-SAFETY RELIEF
5221GC GAGE-PRESSURE
5221JS INDICATOR-SIGHT LIQUID, TUBULAR
5221KX VALVE-STOP CHECK
5221KZ VALVE SUBPLATE
5221K8 VALVE-CHECK, INLINE, $25 AND ABOVE
5221N9 NOZZLE-WATER QUENCH
INCLUDES: NOZZLE, MISSILE BOOSTER SUPPRESSION
5221PX PIPING SYSTEM HARDWARE
5221Q3 VALVE-PILOT, PNEUMATIC OPERATED
INCLUDES PNEUM RELEASE
5221VG VALVE-BUTTERFLY
5221VI VALVE-GLOBE
INCLUDES: POWER OPERATED CHECK GLOBE SPECIAL
5221VJ VALVE-CHECK
INCLUDES: LIFT CHECK GLOBE SPECIAL CHECK, SPECIAL
5221VL VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
INCLUDES: DIAPHRAGM CONTROL, PILOT OPERATED UNLOADING VALVE
5221VR VALVE-GATE
5221VT VALVE-LINEAR, DIRECTIONAL CONTROL
5221VV VALVE-NEEDLE
5221V0 VALVE-ROTARY, DIRECTIONAL CONTROL
INCLUDES: CONTROL SPECIAL 2 WAY VALVE OPERATOR
5221V7 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
5221ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-SINGLE STRAINER-Y
52211U HEAD-SPRINKLER, FIRE PROTECTION
INCLUDES: HEAD,SPRKLR,FIRE PROT HEAD,SPRKLR,WASH DOWN HEAT SENSING DEVICE
52212Z SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
52217Z SWITCH-PRESSURE AND/OR THERMOSTATIC
DDG-37 CLASS
PREPARED 11-15-77

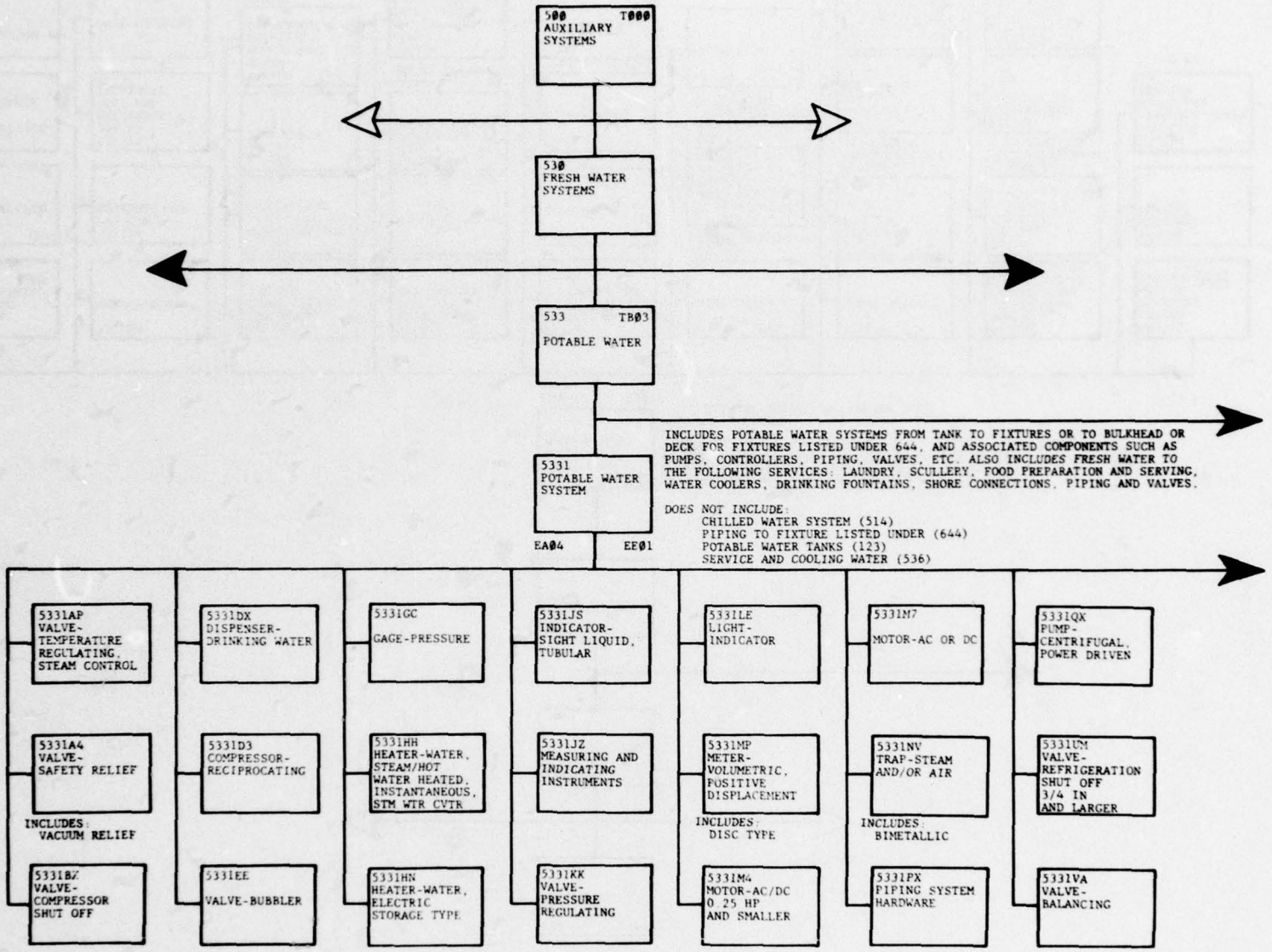

500 T000
AUXILIARY SYSTEMS
520 T800
SEA WATER SYSTEMS
523 T805
WASHDOWN SYSTEM
524 T806
AUXILIARY SEA WATER SYSTEM
INCLUDES BRANCH PIPING FROM THE FIREMAIN CUT-OUT VALVES TO PROVIDE SEA WATER FOR EMERGENCY COOLING WATER FOR MACHINERY, ELECTRONIC EQUIPMENT COOLING, SERVICE TO DRAINAGE EDUCTORS AND FOAM PROPORTIONERS, AND BALLASTING OF FUEL OIL OR BALLAST TANKS. ALSO INCLUDES COMPONENTS OF THE AUXILIARY MACHINERY COOLING WATER SYSTEM.
DOES NOT INCLUDE:
MAIN CONDENSER S.W. CIRCULATING SYSTEM (256)
SSTG CONDENSER S.W. CIRCULATING SYSTEM (256)
EMERGENCY DIESEL GENERATOR S.W. CIRCULATING SYSTEM (342)
A.C PLANT S.W. COOLING SYSTEM (5142)
S.S. REFRIGERATION SYSTEM S.W. COOLING SYSTEM (5161)
DISTILLING PLANT S.W. SYSTEM (531)
AUXILIARY F.W. COOLING SYSTEM (536)
HEAT EXCHANGERS (W.S.)
5231 COUNTERMEASURE WASHDOWN SYSTEM
INCLUDES CONTROL VALVE AND PIPING FOR COUNTERMEASURE WASHDOWN SYSTEM.
5241 AUXILIARY SEA WATER SYSTEM
ER01
EA04
EE01
5231PX PIPING SYSTEM HARDWARE
5231VR VALVE-GATE
5231ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-Y
52311U HEAD-SPRINKLER, FIRE PROTECTION
INCLUDES: HEAD, SPRINKLER, WASHDOWN
5241A4 VALVE-SAFETY RELIEF
5241FK FILTER-FLUID, PRESSURE
5241GC GAGE-PRESSURE
5241JZ MEASURING AND INDICATING INSTRUMENTS
5241KK VALVE-PRESSURE REGULATING
INCLUDES: REDUCING VALVE
5241KX VALVE-STOP CHECK
5241M7 MOTOR-AC OR DC
5241PX PIPING SYSTEM HARDWARE
5241Q3 VALVE-PILOT, PNEUMATIC OPERATED
5241VB VALVE-ANGLE
5241VI VALVE-GLOBE
5241VJ VALVE-CHECK
5241VL VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
INCLUDES: DIAPHRAGM CONTROL, PILOT OPERATED
5241VR VALVE-GATE
5241VV VALVE-NEEDLE
5241VW VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
5241V7 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
5241ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-DUPLEX STRAINER-SINGLE STRAINER-Y
52413N PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE COUPLED, NAVY STANDARD
524147 CONTROLLER/STARTER, AC
DDG-37 CLASS
PREPARED 8-11-77



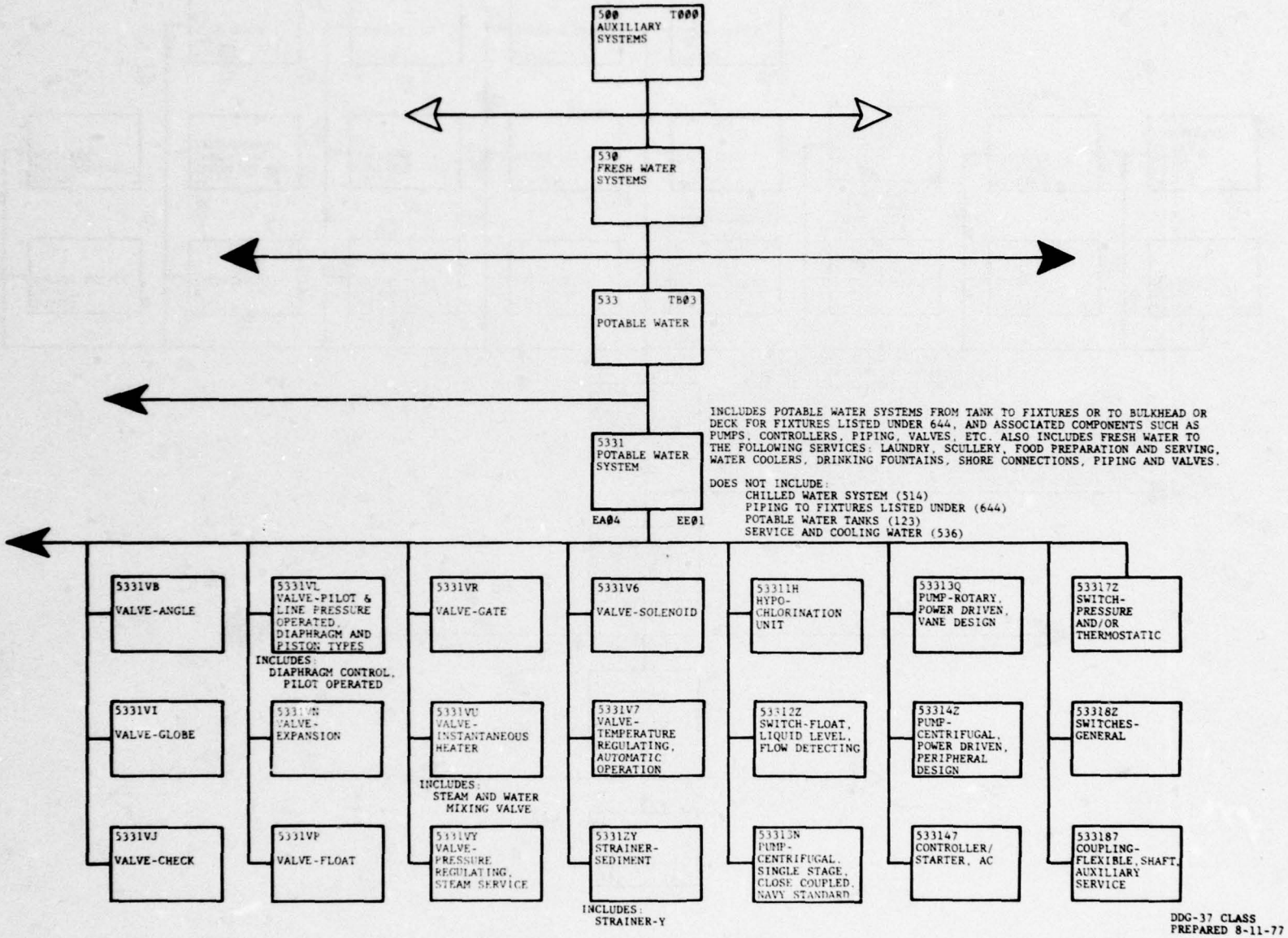
DDG-37 CLASS
PREPARED 8-11-77


500 T000
AUXILIARY SYSTEMS
520 T800
SEA WATER SYSTEM
529 TA00
DRAINAGE AND BALLASTING SYSTEM
5291
DRAINAGE AND BALLASTING SYSTEM (PIPING)
EA04
EB01
EM01
INCLUDES PIPING MAKING UP THE MAIN AND SECONDARY DRAINAGE SYSTEMS. ALSO INCLUDES PIPING ASSOCIATED WITH DEBALLASTING FUEL OIL OR BALLAST TANKS AND BILGE AND FUEL OIL STRIPPING SYSTEM AND DRAINAGE FROM FORWARD AND AFT SPACES.
DOES NOT INCLUDE:
OILY WATER BILGE SUMP TANK (534)
WASTE WATER BILGE SUMP TANK (534)
5291A4
VALVE-SAFETY RELIEF
5291GC
GAGE-PRESSURE
5291KX
VALVE-STOP CHECK
5291PX
PIPING SYSTEM HARDWARE
INCLUDES:
BOX STRAINERS
5291VB
VALVE-ANGLE
5291VG
VALVE-BUTTERFLY
5291V1
VALVE-GLOBE
5291VJ
VALVE-CHECK
5291VR
VALVE-GATE
INCLUDES:
GATE HOSE
5291VV
VALVE-NEEDLE
5291V5
VALVE-MANIFOLD
5291XP
HOSE AND MISCELLANEOUS HOSE FITTINGS
INCLUDES:
HOSE ADAPTERS
5291ZY
STRAINER-SEDIMENT
INCLUDES:
STRAINER-SINGLE
STRAINER-Y
5292
DRAINAGE AND BALLASTING SYSTEM (PUMPS AND CONTROLLERS)
INCLUDES EDUCTORS, BILGE AND FUEL OIL STRIPPING PUMPS AND ASSOCIATED ACCESSORIES.
EA04
EB01
EM01
5292A4
VALVE-SAFETY RELIEF
5292EA
EDUCTOR-LIQUID
5292K7
PUMP, PORTABLE SUBMERSIBLE
5292VR
VALVE-GATE
52922Y
STRAINER-SEDIMENT
52923Q
PUMP-ROTARY, POWER DRIVEN, VANE DESIGN, FIXED OR VAR DELIVERY
52928Q
PUMP-RECIPROCATING, DIRECT ACTING AND POWER DRIVEN
INCLUDES:
BILGE AND FUEL OIL STRIPPING PUMPS
DDG-37 CLASS
PREPARED 11-15-77

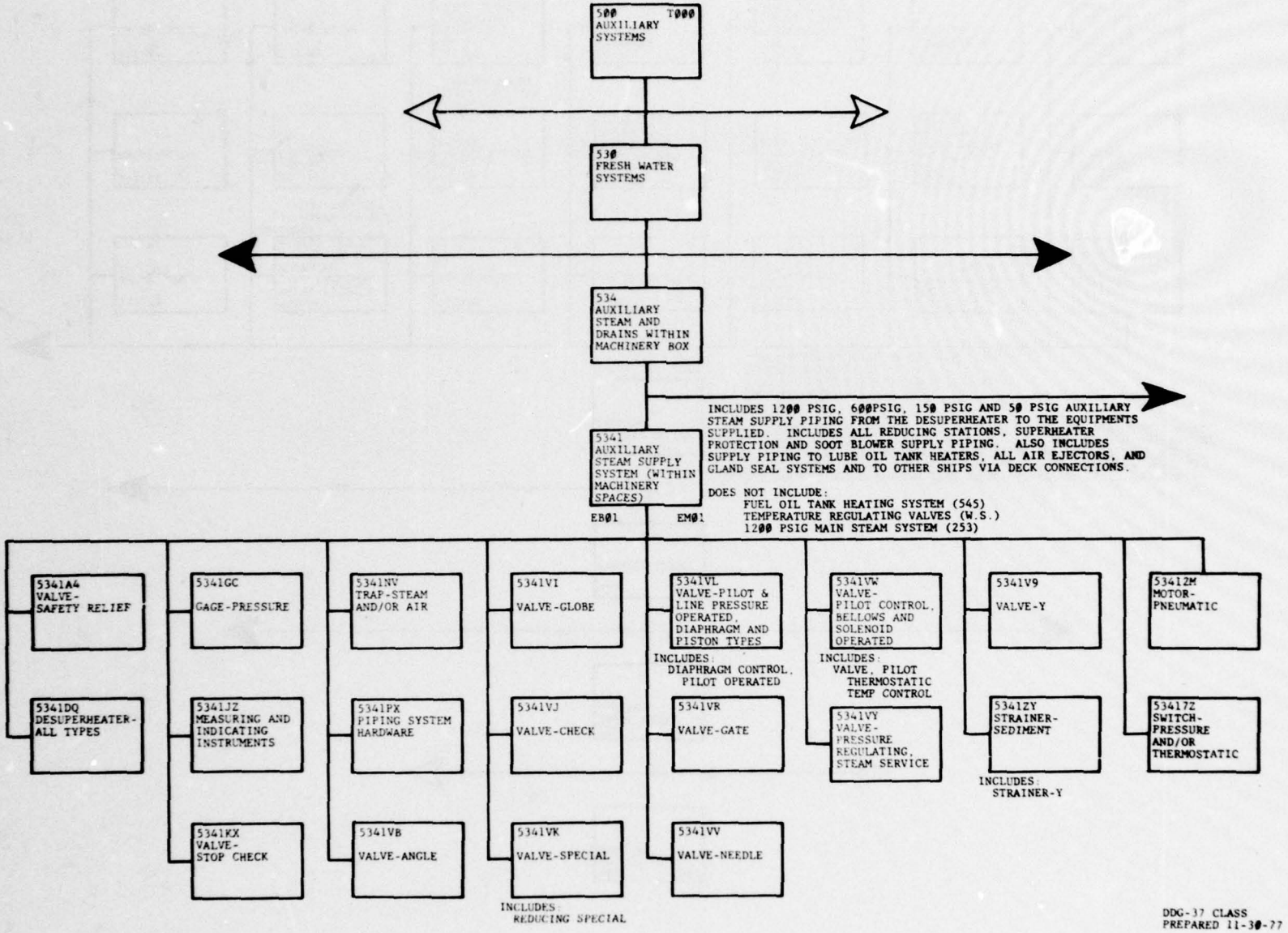

500 T000
AUXILIARY SYSTEMS
530
FRESH WATER SYSTEMS
531
DISTILLING PLANT
5311 TK03
DISTILLING PLANT (FLASH TYPE)
EA04
EE01
EM01
INCLUDES COMPLETE DISTILLING PLANT CONSISTING OF DISTILLING UNITS, PUMPS, CONTROLLER, PIPING, VALVES, METERS, SWITCHES, SALT WATER HEATERS, AIR EJECTOR CONDENSER, AND AIR EJECTORS.
DOES NOT INCLUDE:
SALINITY INDICATING SYSTEM (437)
5311A1 ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL
5311A4 VALVE-SAFETY RELIEF
5311DP DEMINERALIZER-WATER, ION EXCHANGE
5311D4 DISTILLATION UNIT
5311ED HEATER-FLUID
5311EG EJECTOR ASSEMBLY-AIR
5311FI BOILER FEEDWATER TEST AND TREATMENT
5311GC GAGE-PRESSURE
5311JS INDICATOR-SIGHT LIQUID, TUBULAR
5311JZ MEASURING AND INDICATING INSTRUMENTS
5311KX VALVE-STOP CHECK
5311MP METER-VOLUMETRIC, POSITIVE DISPLACEMENT
INCLUDES DISC TYPE
5311M4 MOTOR-AC/DC 0.25 HP AND SMALLER
5311M7 MOTOR-AC OR DC
5311QX PUMP-CENTRIFUGAL, POWER DRIVEN
INCLUDES HEATER DRAIN PUMP
5311QI PUMP-CENTRIFUGAL, POWER DRIVEN, CC OR COUPLING DESIGN
5311R1 REGULATOR-FLOW, FLOAT OPERATED, DRAIN/MAKE-UP VALVE
5311VB VALVE-ANGLE
5311VI VALVE-GLOBE
5311VJ VALVE-CHECK
5311VK VALVE-SPECIAL
INCLUDES: REDUCING SPECIAL
5311VL VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
INCLUDES: DIAPHRAGM CONTROL PILOT OPERATED PILOT VALVE
5311VR VALVE-GATE
5311V6 VALVE-SOLENOID
5311ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-SINGLE STRAINER-Y
531111 CONDENSER-STEAM, ALL TYPES
531122 SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
53113N PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE COUPLED, NAVY STANDARD
531145 CONTROL-PRESSURE, TEMPERATURE, LEVEL AND FLOW
INCLUDES: CONTROL-PRESSURE TRANSMITTER
531147 CONTROLLER/STARTER, AC
531167 COOLER-FLUID, SHELL/TUBE CONSTRUCTION
53117Z SWITCH-PRESSURE AND/OR THERMOSTATIC
53118Z SWITCHES-GENERAL
531187 COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
DDG-37 CLASS
PREPARED 8-11-77



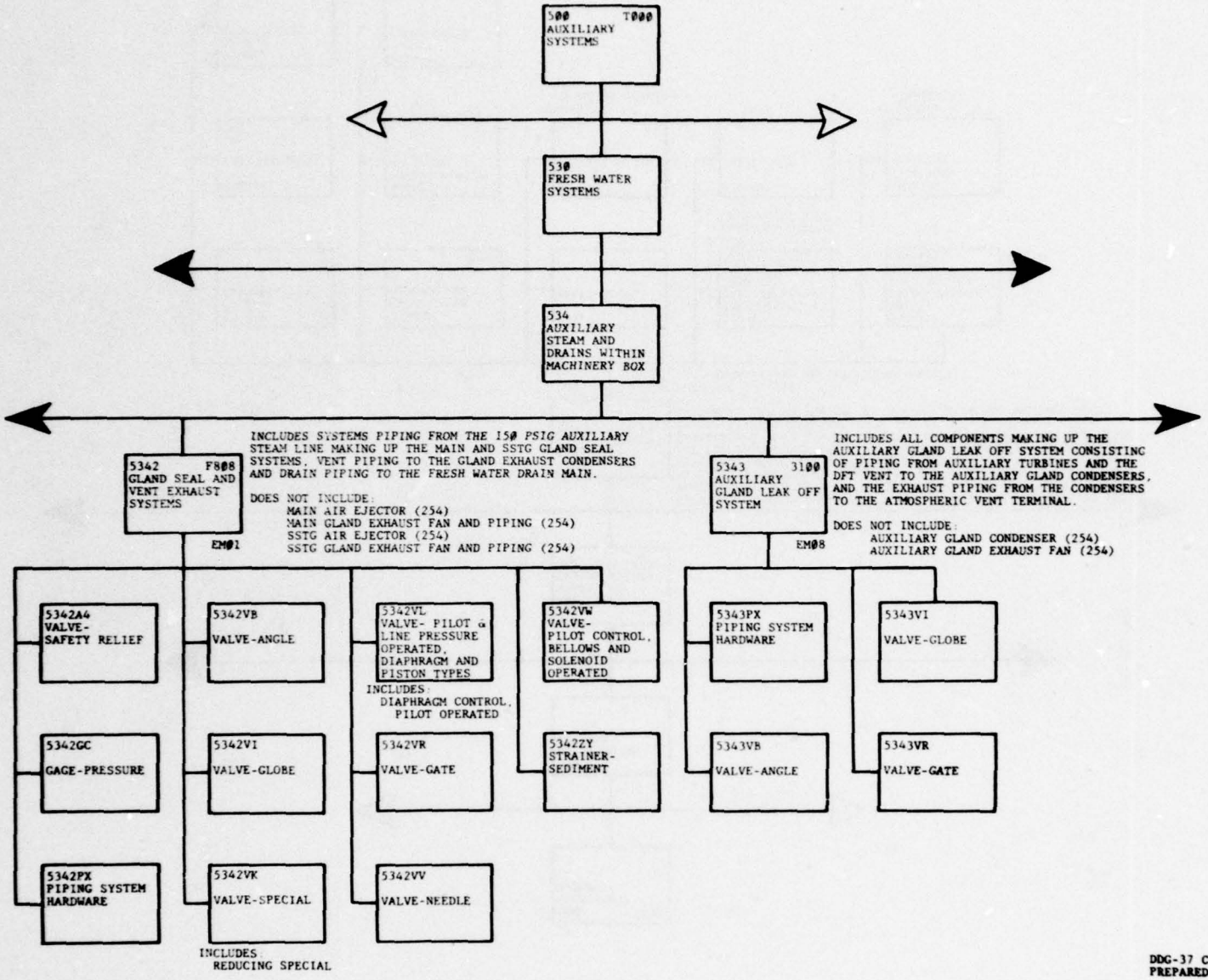
DDG-37 CLASS
PREPARED 8-11-77



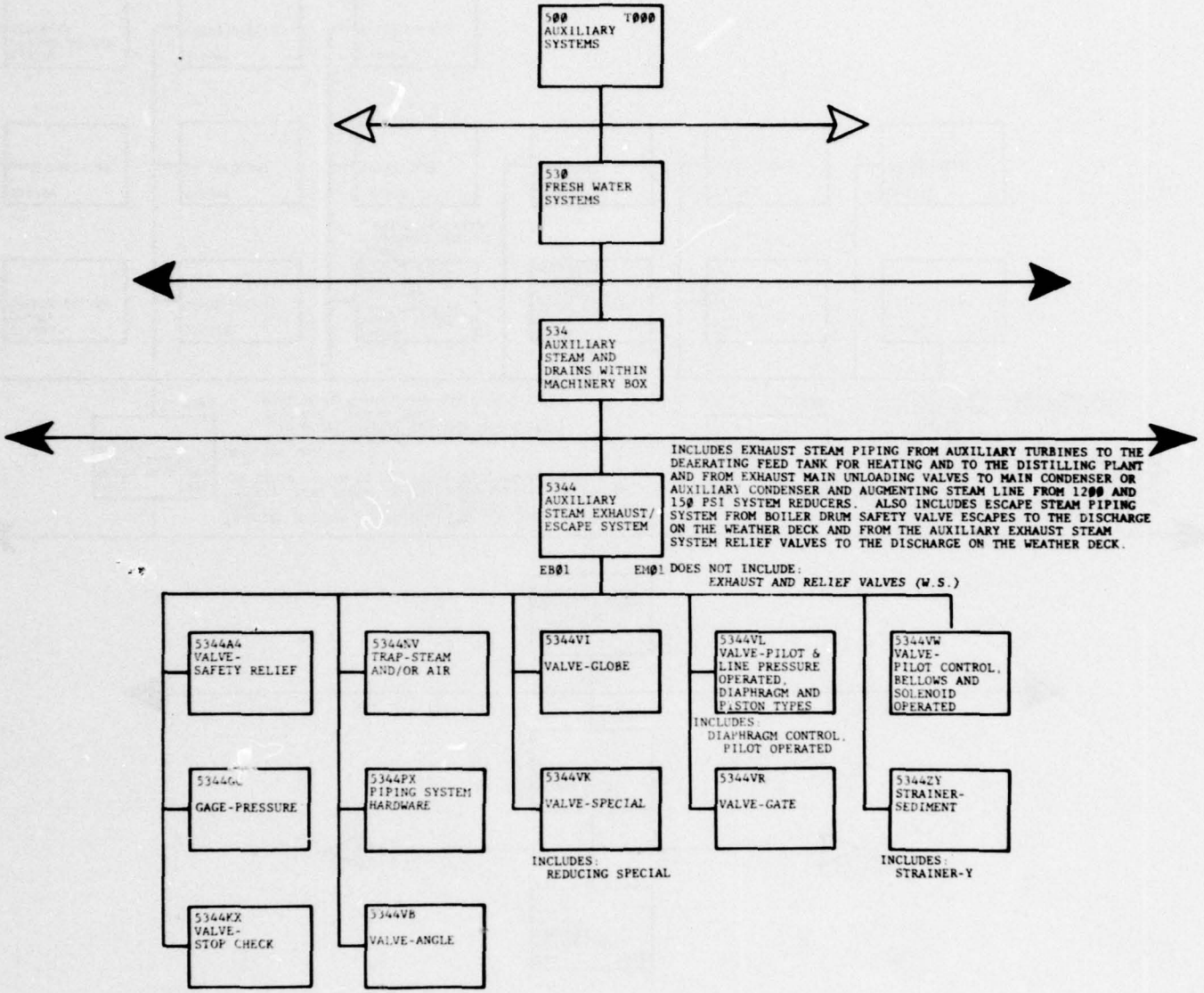
DDG-37 CLASS
PREPARED 8-11-77



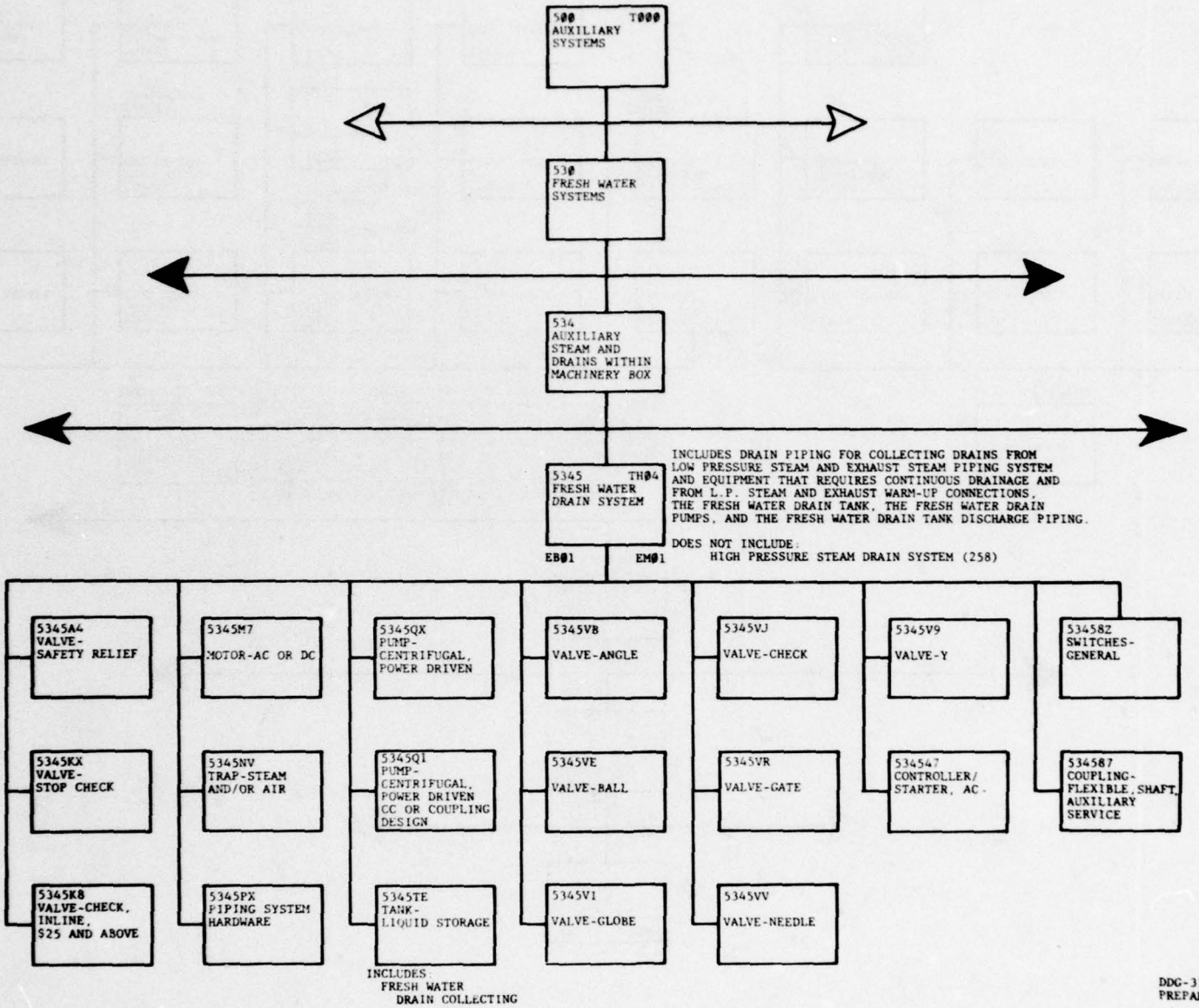
DDG-37 CLASS
PREPARED 11-30-77



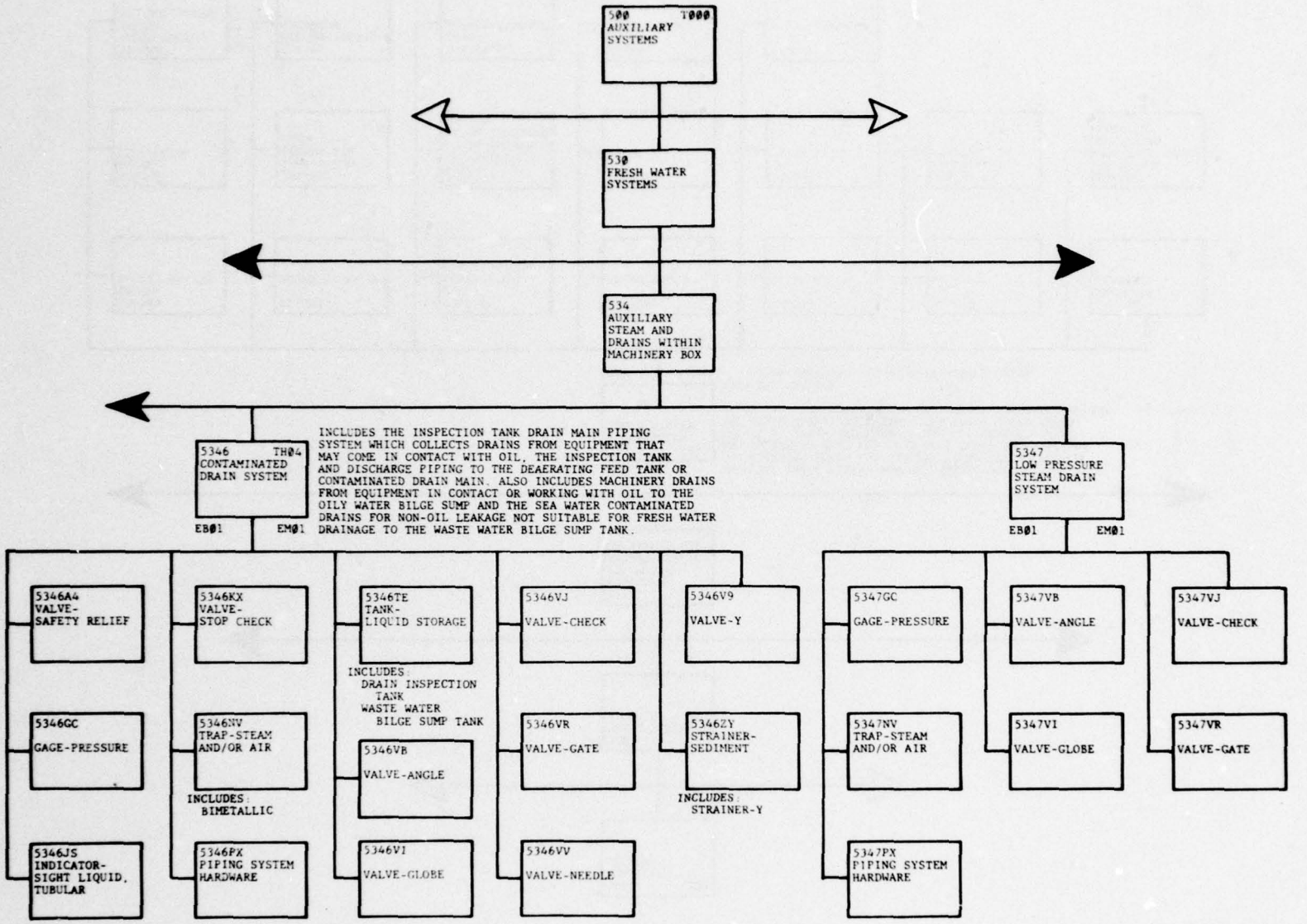
DDG-37 CLASS
PREPARED 8-11-77



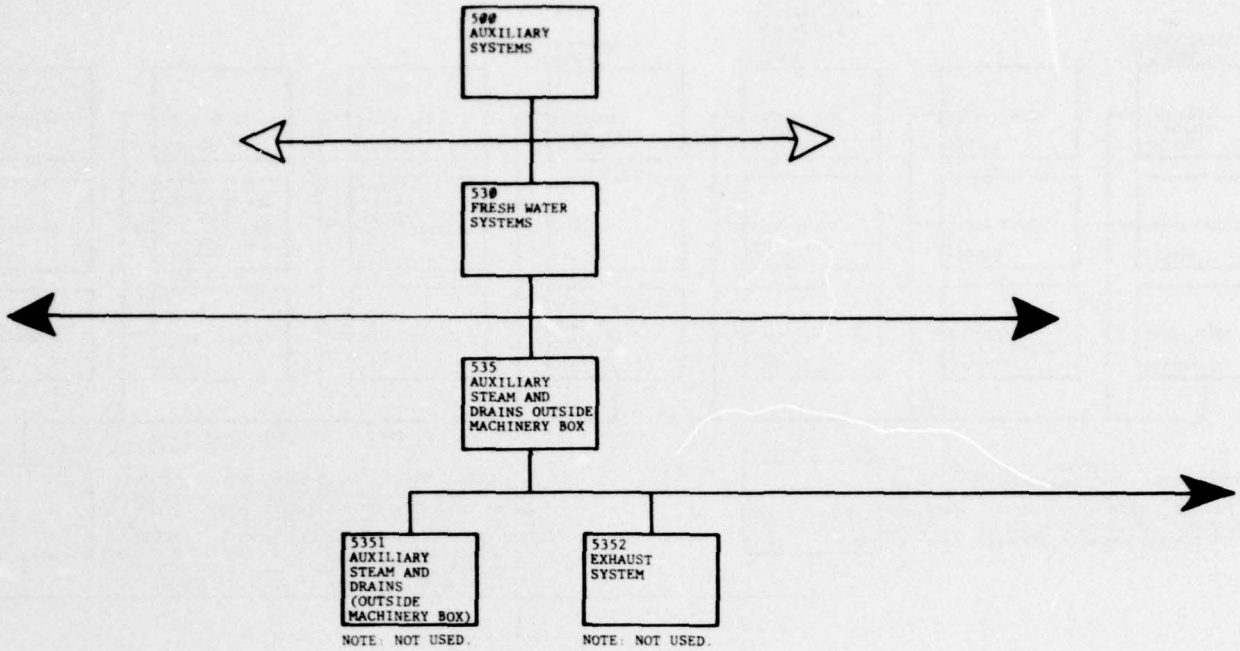
DDG-37 CLASS
PREPARED 11-30-77

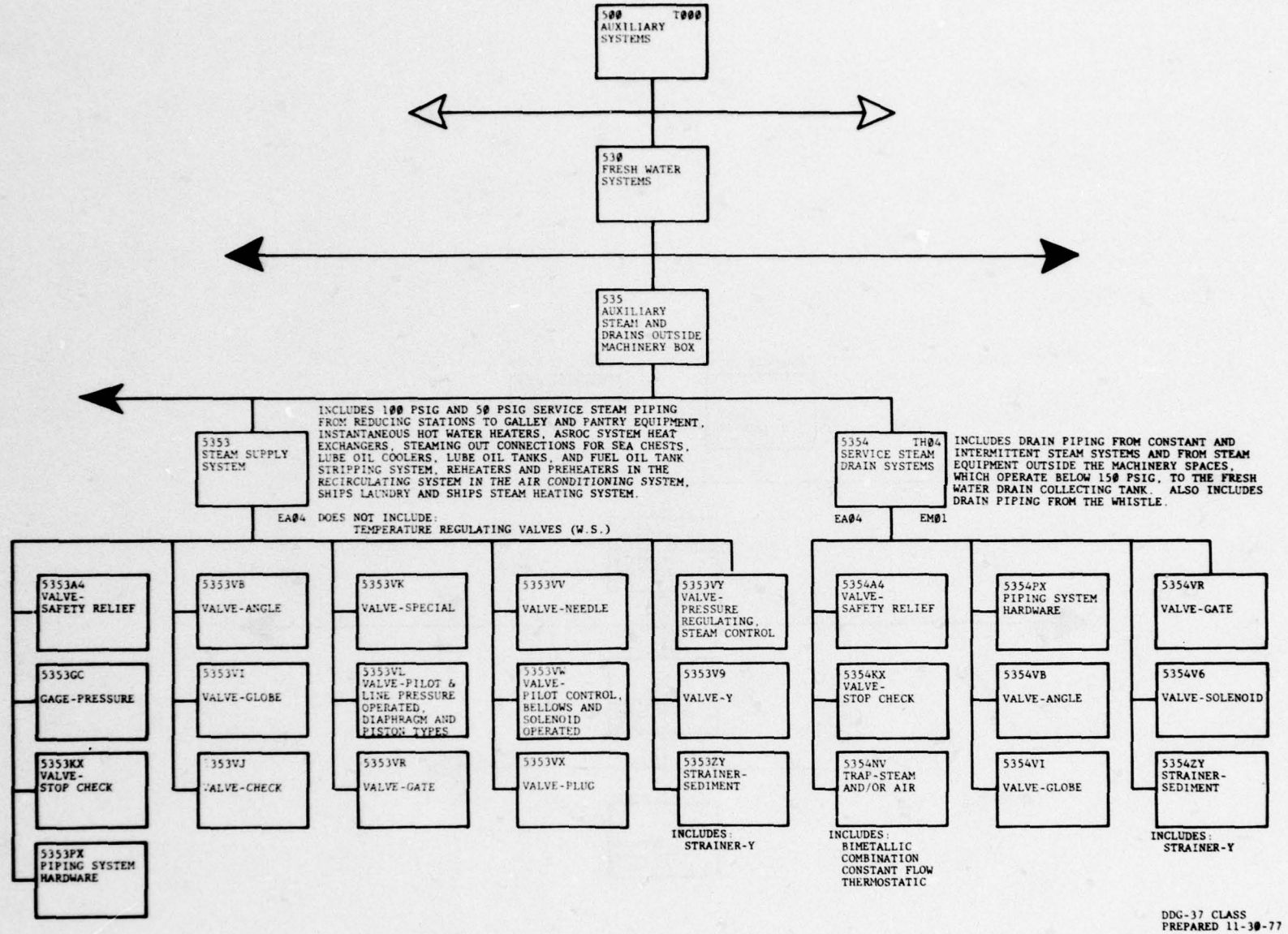


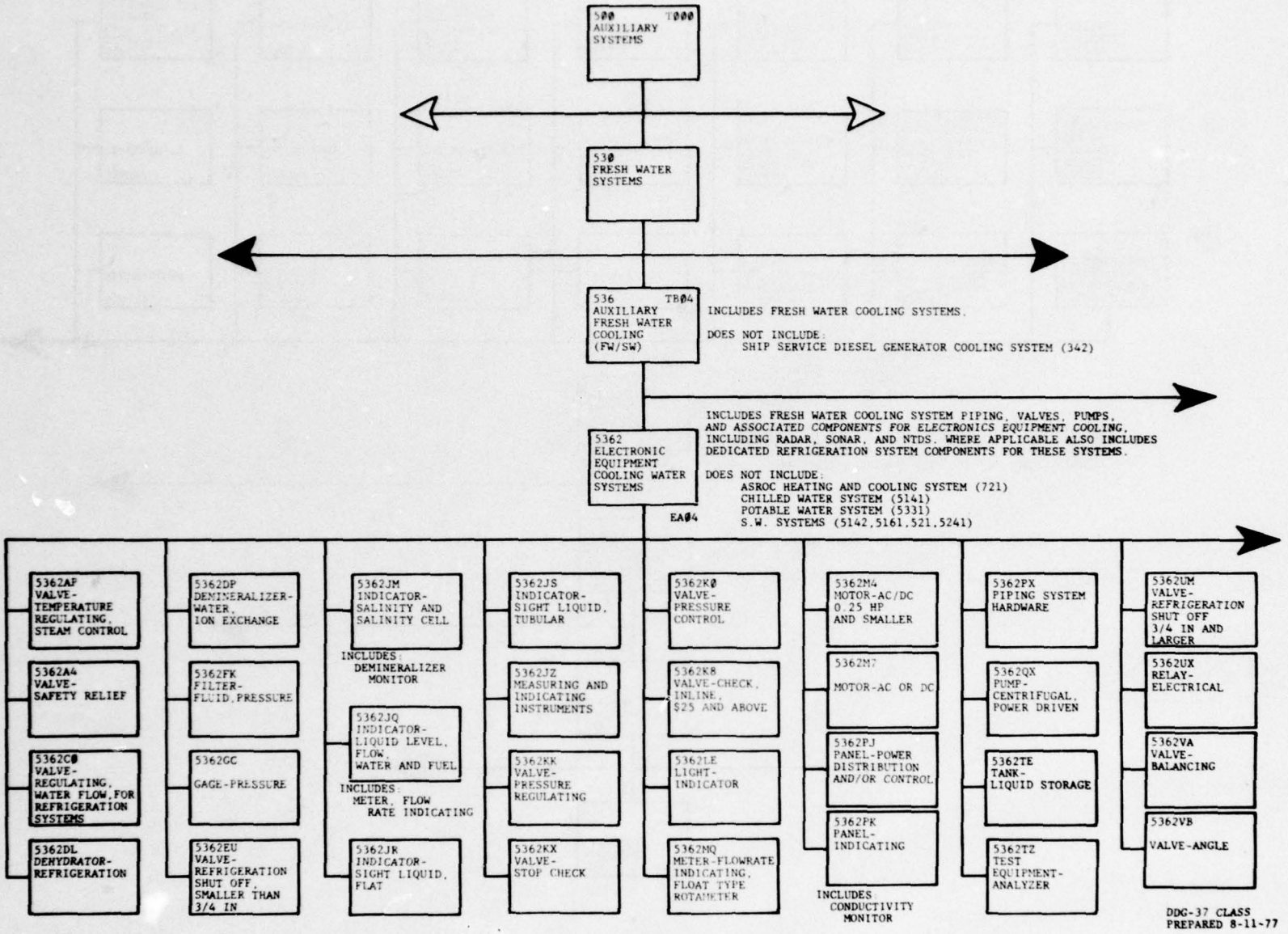
DDG-37 CLASS
PREPARED 11-15-77

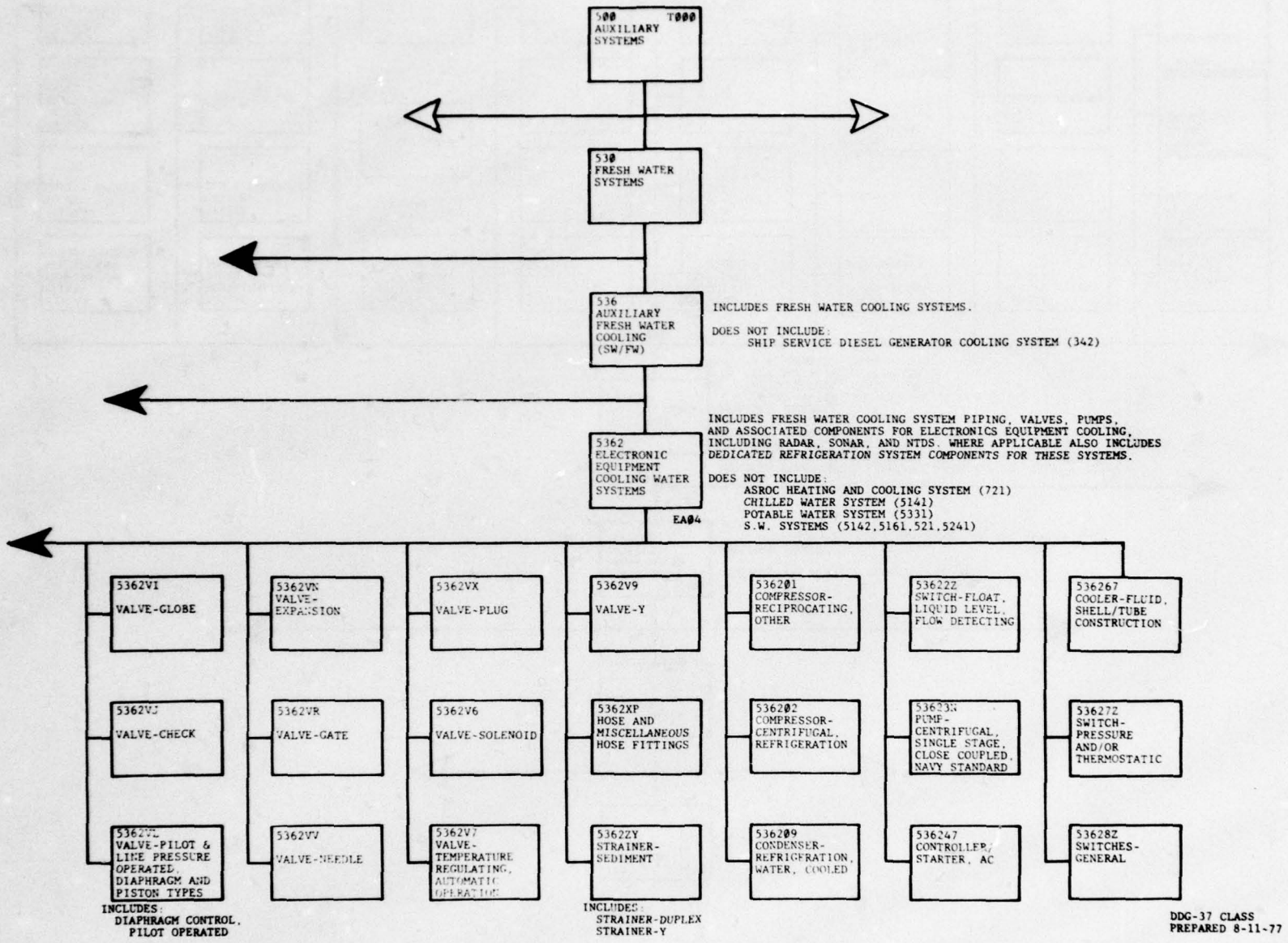


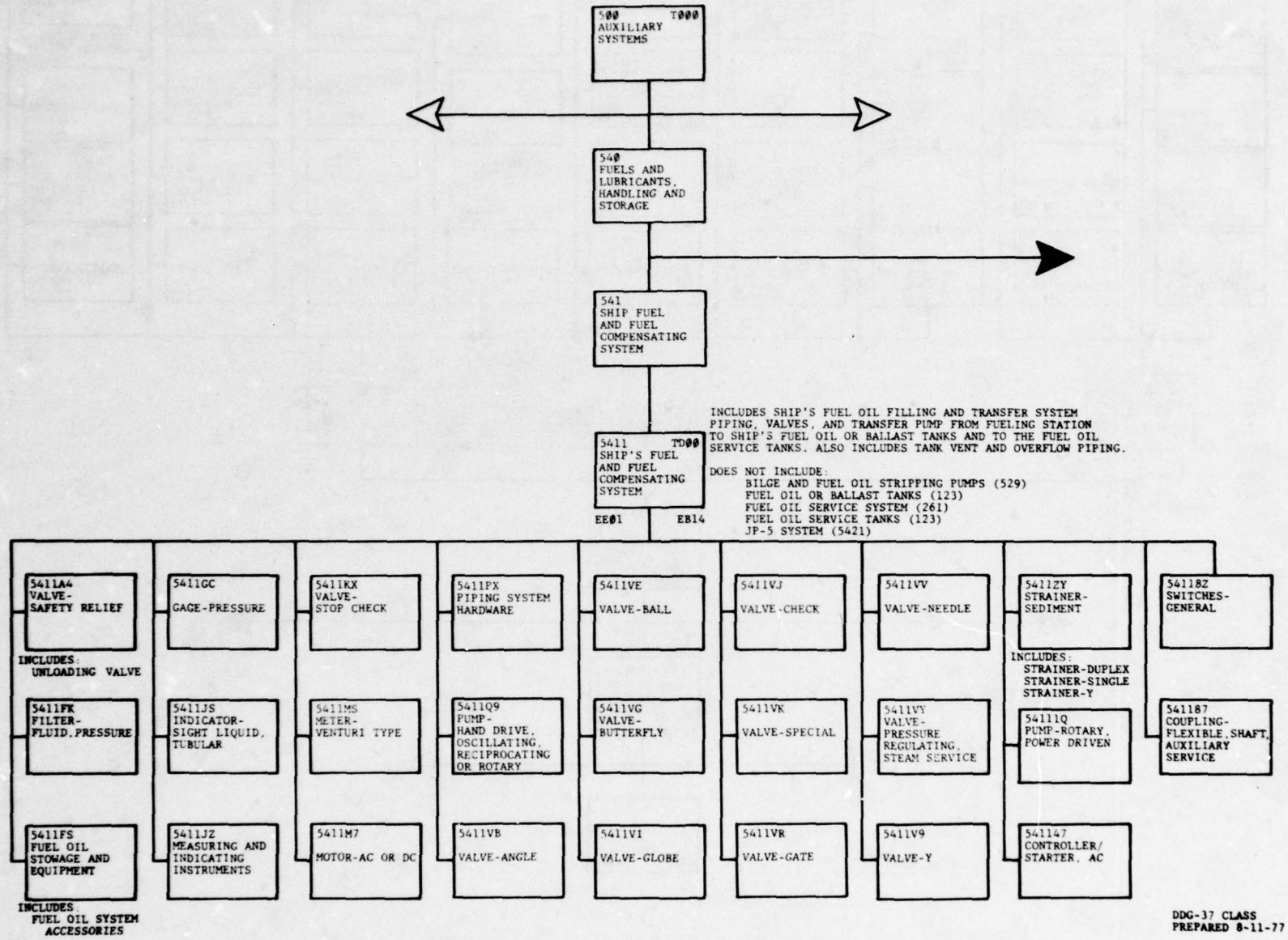
DDG-37 CLASS
PREPARED 8-11-77

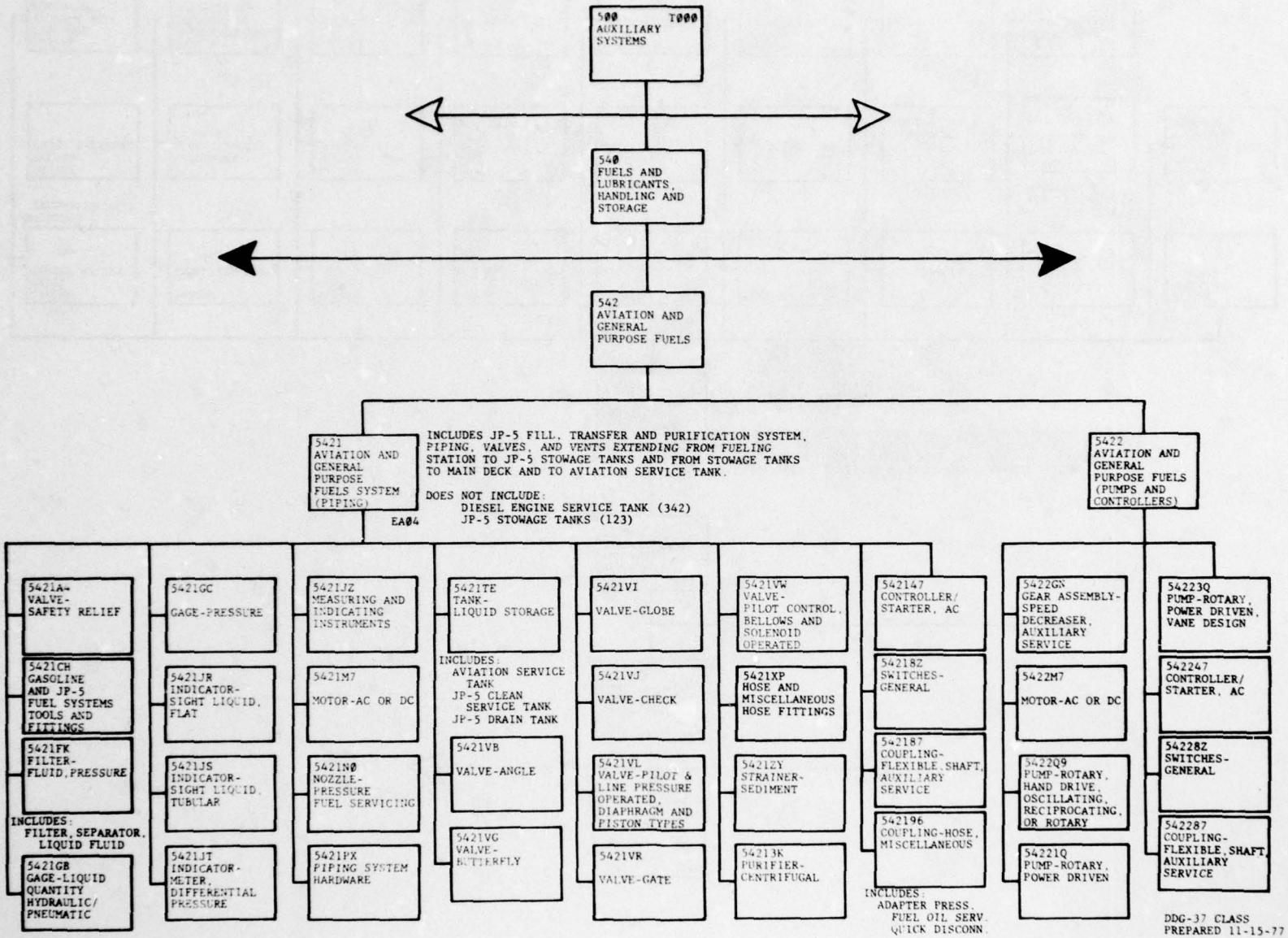

500
AUXILIARY
SYSTEMS
530
FRESH WATER
SYSTEMS
535
AUXILIARY
STEAM AND
DRAINS OUTSIDE
MACHINERY BOX
5351
AUXILIARY
STEAM AND
DRAINS
(OUTSIDE
MACHINERY BOX)
NOTE: NOT USED.
5352
EXHAUST
SYSTEM
NOTE: NOT USED.

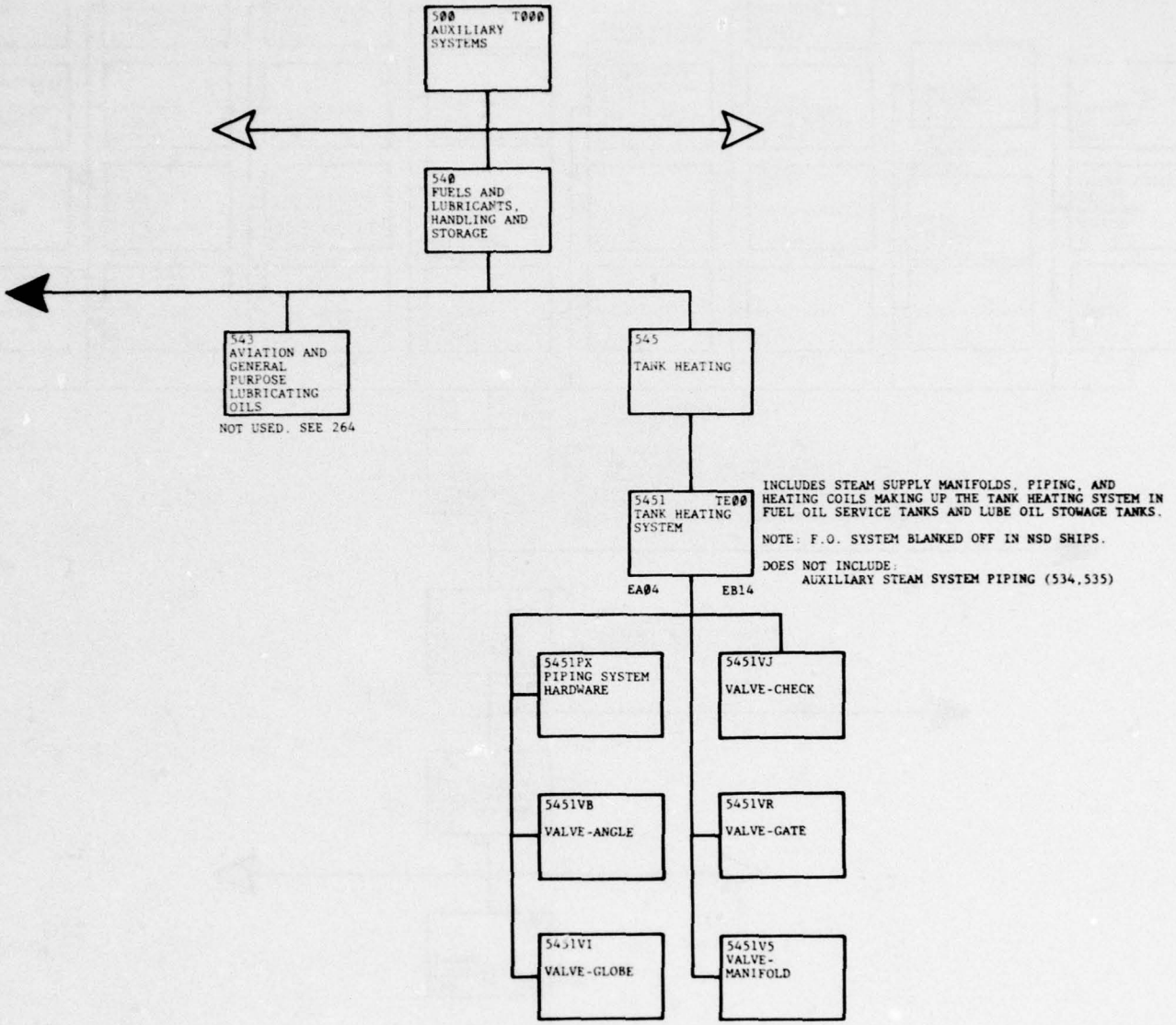

500 T000
AUXILIARY SYSTEMS
530
FRESH WATER SYSTEMS
535
AUXILIARY STEAM AND DRAINS OUTSIDE MACHINERY BOX
5353
STEAM SUPPLY SYSTEM
INCLUDES 100 PSIG AND 50 PSIG SERVICE STEAM PIPING FROM REDUCING STATIONS TO GALLEY AND PANTRY EQUIPMENT, INSTANTANEOUS HOT WATER HEATERS, ASROC SYSTEM HEAT EXCHANGERS, STEAMING OUT CONNECTIONS FOR SEA CHESTS, LUBE OIL COOLERS, LUBE OIL TANKS, AND FUEL OIL TANK STRIPPING SYSTEM, REHEATERS AND PREHEATERS IN THE RECIRCULATING SYSTEM IN THE AIR CONDITIONING SYSTEM, SHIPS LAUNDRY AND SHIPS STEAM HEATING SYSTEM.
EA04
DOES NOT INCLUDE:
TEMPERATURE REGULATING VALVES (W.S.)
5353A4
VALVE-
SAFETY RELIEF
5353GC
GAGE-PRESSURE
5353KX
VALVE-
STOP CHECK
5353PX
PIPING SYSTEM HARDWARE
5353VB
VALVE-ANGLE
5353VI
VALVE-GLOBE
5353VJ
VALVE-CHECK
5353VK
VALVE-SPECIAL
5353VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
5353VR
VALVE-GATE
5353VV
VALVE-NEEDLE
5353VW
VALVE-
PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
5353VX
VALVE-PLUG
5353VY
VALVE-
PRESSURE REGULATING, STEAM CONTROL
5353V9
VALVE-Y
5353ZY
STRAINER-
SEDIMENT
INCLUDES:
STRAINER-Y
5354
SERVICE STEAM DRAIN SYSTEMS
TH04
INCLUDES DRAIN PIPING FROM CONSTANT AND INTERMITTENT STEAM SYSTEMS AND FROM STEAM EQUIPMENT OUTSIDE THE MACHINERY SPACES, WHICH OPERATE BELOW 150 PSIG, TO THE FRESH WATER DRAIN COLLECTING TANK. ALSO INCLUDES DRAIN PIPING FROM THE WHISTLE.
EA04
EM01
5354A4
VALVE-
SAFETY RELIEF
5354KX
VALVE-
STOP CHECK
5354NV
TRAP-STEAM AND/OR AIR
INCLUDES:
BIMETALLIC
COMBINATION
CONSTANT FLOW
THERMOSTATIC
5354PX
PIPING SYSTEM HARDWARE
5354VB
VALVE-ANGLE
5354VI
VALVE-GLOBE
5354VR
VALVE-GATE
5354V6
VALVE-SOLENOID
5354ZY
STRAINER-
SEDIMENT
INCLUDES:
STRAINER-Y
DDG-37 CLASS
PREPARED 11-30-77


500 T000
AUXILIARY SYSTEMS
530
FRESH WATER SYSTEMS
536 TB04
AUXILIARY FRESH WATER COOLING (FW/SW)
INCLUDES FRESH WATER COOLING SYSTEMS.
DOES NOT INCLUDE:
SHIP SERVICE DIESEL GENERATOR COOLING SYSTEM (342)
5362
ELECTRONIC EQUIPMENT COOLING WATER SYSTEMS
EA04
INCLUDES FRESH WATER COOLING SYSTEM PIPING, VALVES, PUMPS, AND ASSOCIATED COMPONENTS FOR ELECTRONICS EQUIPMENT COOLING, INCLUDING RADAR, SONAR, AND NTDS. WHERE APPLICABLE ALSO INCLUDES DEDICATED REFRIGERATION SYSTEM COMPONENTS FOR THESE SYSTEMS.
DOES NOT INCLUDE:
ASROC HEATING AND COOLING SYSTEM (721)
CHILLED WATER SYSTEM (5141)
POTABLE WATER SYSTEM (5331)
S.W. SYSTEMS (5142,5161,521,5241)
5362AF VALVE-TEMPERATURE REGULATING, STEAM CONTROL
5362A4 VALVE-SAFETY RELIEF
5362C0 VALVE-REGULATING, WATER FLOW, FOR REFRIGERATION SYSTEMS
5362DL DEHYDRATOR-REFRIGERATION
5362DP DEMINERALIZER-WATER, ION EXCHANGE
5362FK FILTER-FLUID, PRESSURE
5362GC GAGE-PRESSURE
5362EU VALVE-REFRIGERATION SHUT OFF, SMALLER THAN 3/4 IN
5362JM INDICATOR-SALINITY AND SALINITY CELL
INCLUDES: DEMINERALIZER MONITOR
5362JQ INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
INCLUDES: METER, FLOW RATE INDICATING
5362JR INDICATOR-SIGHT LIQUID, FLAT
5362JS INDICATOR-SIGHT LIQUID, TUBULAR
5362JZ MEASURING AND INDICATING INSTRUMENTS
5362KK VALVE-PRESSURE REGULATING
5362KX VALVE-STOP CHECK
5362K0 VALVE-PRESSURE CONTROL
5362K8 VALVE-CHECK, INLINE, $25 AND ABOVE
5362LE LIGHT-INDICATOR
5362MQ METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER
5362M4 MOTOR-AC/DC 0.25 HP AND SMALLER
5362M7 MOTOR-AC OR DC
5362PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
5362PK PANEL-INDICATING
INCLUDES: CONDUCTIVITY MONITOR
5362PX PIPING SYSTEM HARDWARE
5362QX PUMP-CENTRIFUGAL, POWER DRIVEN
5362TE TANK-LIQUID STORAGE
5362TZ TEST EQUIPMENT-ANALYZER
5362UM VALVE-REFRIGERATION SHUT OFF 3/4 IN AND LARGER
5362UX RELAY-ELECTRICAL
5362VA VALVE-BALANCING
5362VB VALVE-ANGLE
DDG-37 CLASS
PREPARED 8-11-77

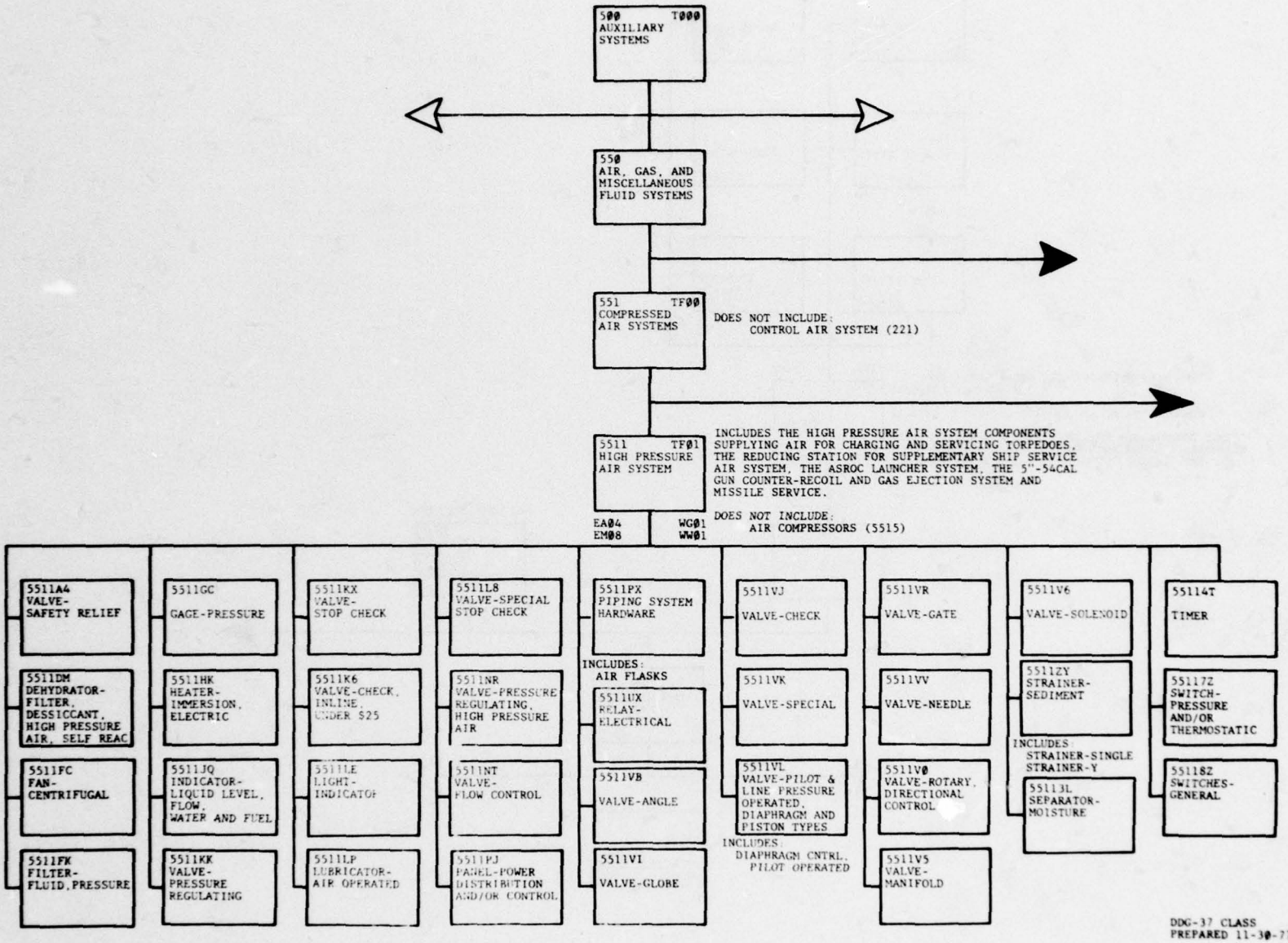

500 T000
AUXILIARY SYSTEMS
530
FRESH WATER SYSTEMS
536
AUXILIARY FRESH WATER COOLING (SW/FW)
INCLUDES FRESH WATER COOLING SYSTEMS.
DOES NOT INCLUDE:
SHIP SERVICE DIESEL GENERATOR COOLING SYSTEM (342)
5362
ELECTRONIC EQUIPMENT COOLING WATER SYSTEMS
EA04
INCLUDES FRESH WATER COOLING SYSTEM PIPING, VALVES, PUMPS, AND ASSOCIATED COMPONENTS FOR ELECTRONICS EQUIPMENT COOLING, INCLUDING RADAR, SONAR, AND NTDS. WHERE APPLICABLE ALSO INCLUDES DEDICATED REFRIGERATION SYSTEM COMPONENTS FOR THESE SYSTEMS.
DOES NOT INCLUDE:
ASROC HEATING AND COOLING SYSTEM (721)
CHILLED WATER SYSTEM (5141)
POTABLE WATER SYSTEM (5331)
S.W. SYSTEMS (5142,5161,521,5241)
5362VI
VALVE-GLOBE
5362VN
VALVE-EXPANSION
5362VX
VALVE-PLUG
5362V9
VALVE-Y
536201
COMPRESSOR-RECIPROCATING, OTHER
53622Z
SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
536267
COOLER-FLUID, SHELL/TUBE CONSTRUCTION
5362VJ
VALVE-CHECK
5362VR
VALVE-GATE
5362V6
VALVE-SOLENOID
5362XP
HOSE AND MISCELLANEOUS HOSE FITTINGS
536202
COMPRESSOR-CENTRIFUGAL, REFRIGERATION
53623X
PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE COUPLED, NAVY STANDARD
53627Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
5362VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
5362VV
VALVE-NEEDLE
5362V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
5362ZY
STRAINER-SEDIMENT
536209
CONDENSER-REFRIGERATION, WATER, COOLED
536247
CONTROLLER, STARTER, AC
53628Z
SWITCHES-GENERAL
INCLUDES:
DIAPHRAGM CONTROL, PILOT OPERATED
INCLUDES:
STRAINER-DUPLEX
STRAINER-Y
DDG-37 CLASS
PREPARED 8-11-77


500 T000
AUXILIARY SYSTEMS
540
FUELS AND LUBRICANTS, HANDLING AND STORAGE
541
SHIP FUEL AND FUEL COMPENSATING SYSTEM
5411 TD00
SHIP'S FUEL AND FUEL COMPENSATING SYSTEM
EE01
EB14
INCLUDES SHIP'S FUEL OIL FILLING AND TRANSFER SYSTEM PIPING, VALVES, AND TRANSFER PUMP FROM FUELING STATION TO SHIP'S FUEL OIL OR BALLAST TANKS AND TO THE FUEL OIL SERVICE TANKS. ALSO INCLUDES TANK VENT AND OVERFLOW PIPING.
DOES NOT INCLUDE:
BILGE AND FUEL OIL STRIPPING PUMPS (529)
FUEL OIL OR BALLAST TANKS (123)
FUEL OIL SERVICE SYSTEM (261)
FUEL OIL SERVICE TANKS (123)
JP-5 SYSTEM (5421)
5411A4 VALVE-SAFETY RELIEF
INCLUDES: UNLOADING VALVE
5411FK FILTER-FLUID, PRESSURE
5411FS FUEL OIL STOWAGE AND EQUIPMENT
INCLUDES: FUEL OIL SYSTEM ACCESSORIES
5411GC GAGE-PRESSURE
5411JS INDICATOR-SIGHT LIQUID, TUBULAR
5411JZ MEASURING AND INDICATING INSTRUMENTS
5411KX VALVE-STOP CHECK
5411MS METER-VENTURI TYPE
5411M7 MOTOR-AC OR DC
5411PX PIPING SYSTEM HARDWARE
5411Q9 PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY
5411VB VALVE-ANGLE
5411VE VALVE-BALL
5411VG VALVE-BUTTERFLY
5411VI VALVE-GLOBE
5411VJ VALVE-CHECK
5411VK VALVE-SPECIAL
5411VR VALVE-GATE
5411VV VALVE-NEEDLE
5411VY VALVE-PRESSURE REGULATING, STEAM SERVICE
5411V9 VALVE-Y
5411ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-DUPLEX STRAINER-SINGLE STRAINER-Y
54111Q PUMP-ROTARY, POWER DRIVEN
541147 CONTROLLER/STARTER, AC
54118Z SWITCHES-GENERAL
541187 COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
DDG-37 CLASS
PREPARED 8-11-77

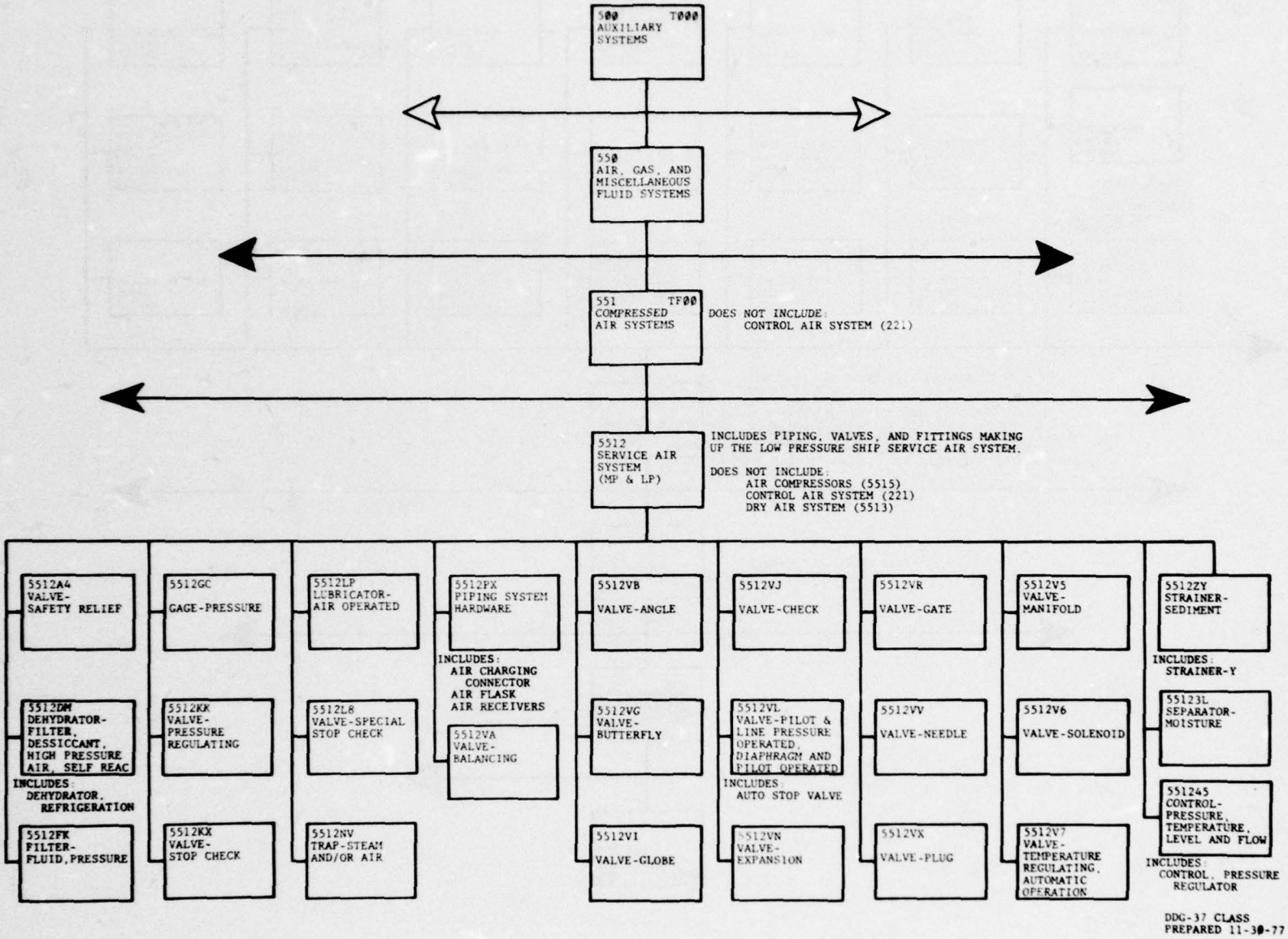

500 T000
AUXILIARY SYSTEMS
540
FUELS AND LUBRICANTS, HANDLING AND STORAGE
542
AVIATION AND GENERAL PURPOSE FUELS
5421
AVIATION AND GENERAL PURPOSE FUELS SYSTEM (PIPING)
EA04
INCLUDES JP-5 FILL, TRANSFER AND PURIFICATION SYSTEM, PIPING, VALVES, AND VENTS EXTENDING FROM FUELING STATION TO JP-5 STOWAGE TANKS AND FROM STOWAGE TANKS TO MAIN DECK AND TO AVIATION SERVICE TANK.
DOES NOT INCLUDE:
DIESEL ENGINE SERVICE TANK (342)
JP-5 STOWAGE TANKS (123)
5422
AVIATION AND GENERAL PURPOSE FUELS (PUMPS AND CONTROLLERS)
5421A-
VALVE-SAFETY RELIEF
5421CH
GASOLINE AND JP-5 FUEL SYSTEMS TOOLS AND FITTINGS
5421FK
FILTER-FLUID, PRESSURE
INCLUDES:
FILTER, SEPARATOR, LIQUID FLUID
5421GB
GAGE-LIQUID QUANTITY HYDRAULIC/ PNEUMATIC
5421GC
GAGE-PRESSURE
5421JR
INDICATOR-SIGHT LIQUID, FLAT
5421JS
INDICATOR-SIGHT LIQUID, TUBULAR
5421JT
INDICATOR-METER, DIFFERENTIAL PRESSURE
5421JZ
MEASURING AND INDICATING INSTRUMENTS
5421M7
MOTOR-AC OR DC
5421N0
NOZZLE-PRESSURE FUEL SERVICING
5421PX
PIPING SYSTEM HARDWARE
5421TE
TANK-LIQUID STORAGE
INCLUDES:
AVIATION SERVICE TANK
JP-5 CLEAN SERVICE TANK
JP-5 DRAIN TANK
5421VB
VALVE-ANGLE
5421VG
VALVE-BUTTERFLY
5421VI
VALVE-GLOBE
5421VJ
VALVE-CHECK
5421VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
5421VR
VALVE-GATE
5421VW
VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED
5421XP
HOSE AND MISCELLANEOUS HOSE FITTINGS
5421ZY
STRAINER-SEDIMENT
5421ZK
PURIFIER-CENTRIFUGAL
54214Z
CONTROLLER/ STARTER, AC
54218Z
SWITCHES-GENERAL
54218Z
COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
54219Q
COUPLING-HOSE, MISCELLANEOUS
INCLUDES:
ADAPTER PRESS. FUEL OIL SERV. QUICK DISCONN.
5422GN
GEAR ASSEMBLY-SPEED DECREASER, AUXILIARY SERVICE
5422M7
MOTOR-AC OR DC
5422Q9
PUMP-ROTARY, HAND DRIVE, OSCILLATING, RECIPROCATING, OR ROTARY
5422JQ
PUMP-ROTARY, POWER DRIVEN
54223Q
PUMP-ROTARY, POWER DRIVEN, VANE DESIGN
54224Z
CONTROLLER/ STARTER, AC
54228Z
SWITCHES-GENERAL
54228Z
COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE
DDG-37 CLASS
PREPARED 11-15-77

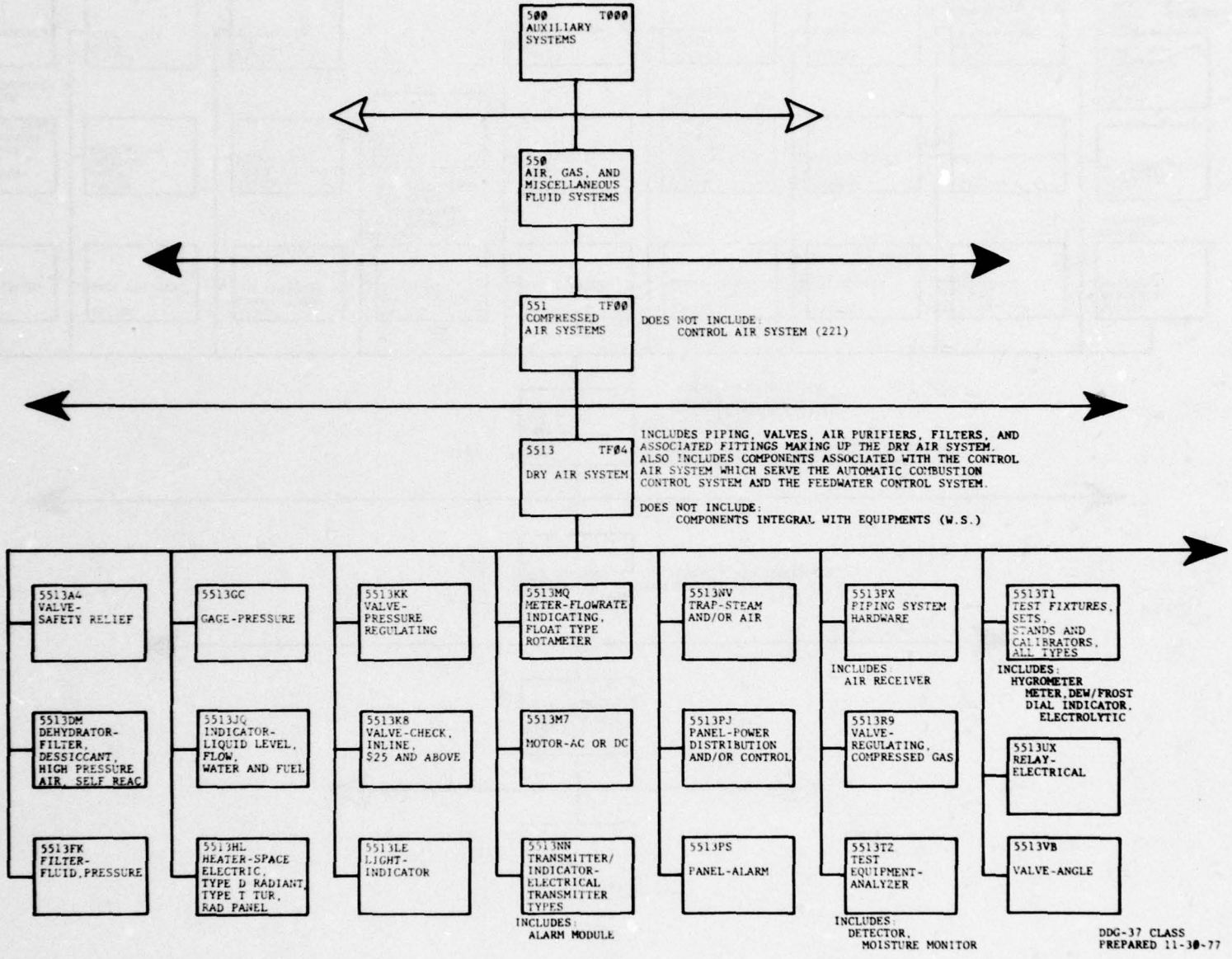


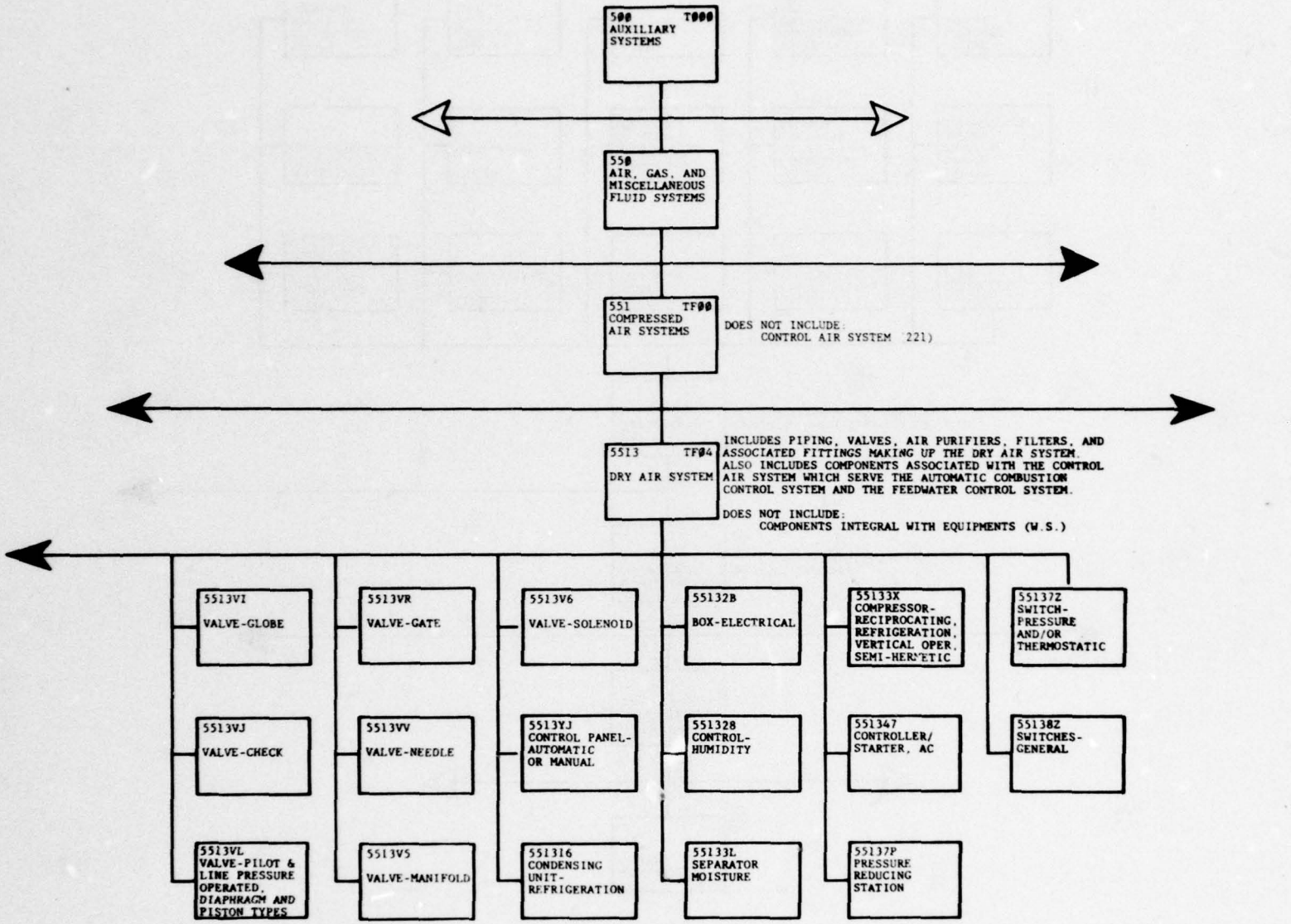
DDG-37 CLASS
PREPARED 8-11-77



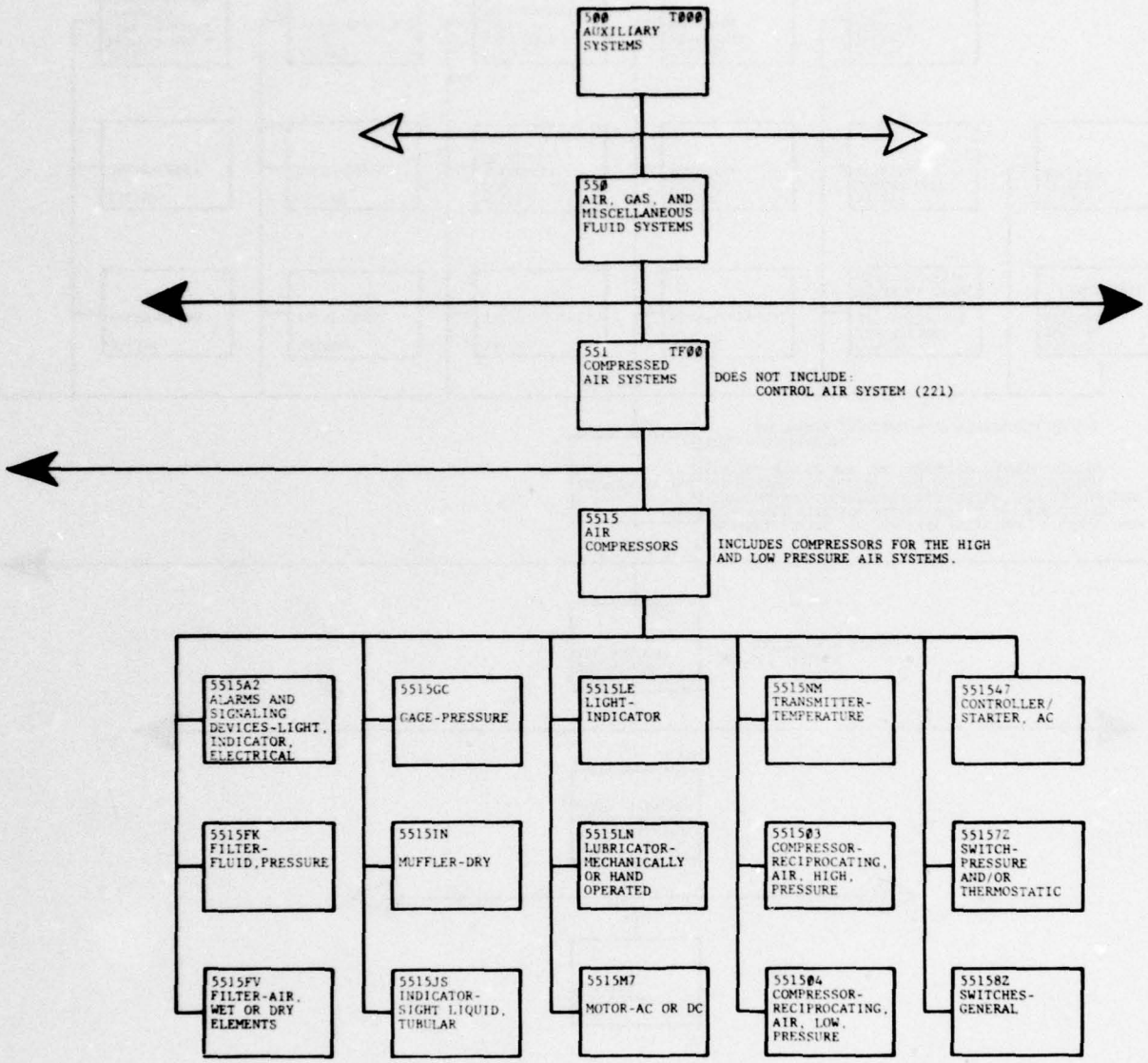
DDG-37 CLASS
PREPARED 11-30-77


500 T000
AUXILIARY SYSTEMS
550
AIR, GAS, AND MISCELLANEOUS FLUID SYSTEMS
551 TF00
COMPRESSED AIR SYSTEMS
DOES NOT INCLUDE:
CONTROL AIR SYSTEM (221)
5512
SERVICE AIR SYSTEM (MP & LP)
INCLUDES PIPING, VALVES, AND FITTINGS MAKING UP THE LOW PRESSURE SHIP SERVICE AIR SYSTEM.
DOES NOT INCLUDE:
AIR COMPRESSORS (5515)
CONTROL AIR SYSTEM (221)
DRY AIR SYSTEM (5513)
5512A4 VALVE-SAFETY RELIEF
5512DH DEHYDRATOR-FILTER, DESSICCANT, HIGH PRESSURE AIR, SELF REAC
INCLUDES: DEHYDRATOR, REFRIGERATION
5512FK FILTER-FLUID, PRESSURE
5512GC GAGE-PRESSURE
5512KK VALVE-PRESSURE REGULATING
5512KX VALVE-STOP CHECK
5512LP LUBRICATOR-AIR OPERATED
5512L8 VALVE-SPECIAL STOP CHECK
5512NV TRAP-STEAM AND/OR AIR
5512PX PIPING SYSTEM HARDWARE
INCLUDES: AIR CHARGING CONNECTOR, AIR FLASK, AIR RECEIVERS
5512VA VALVE-BALANCING
5512VB VALVE-ANGLE
5512VG VALVE-BUTTERFLY
5512VI VALVE-GLOBE
5512VJ VALVE-CHECK
5512VL VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PILOT OPERATED
INCLUDES: AUTO STOP VALVE
5512VN VALVE-EXPANSION
5512VR VALVE-GATE
5512VV VALVE-NEEDLE
5512VX VALVE-PLUG
5512V5 VALVE-MANIFOLD
5512V6 VALVE-SOLENOID
5512V7 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
5512ZY STRAINER-SEDIMENT
INCLUDES: STRAINER-Y
55123L SEPARATOR-MOISTURE
551245 CONTROL-PRESSURE, TEMPERATURE, LEVEL AND FLOW
INCLUDES: CONTROL, PRESSURE REGULATOR
DDG-37 CLASS
PREPARED 11-30-77

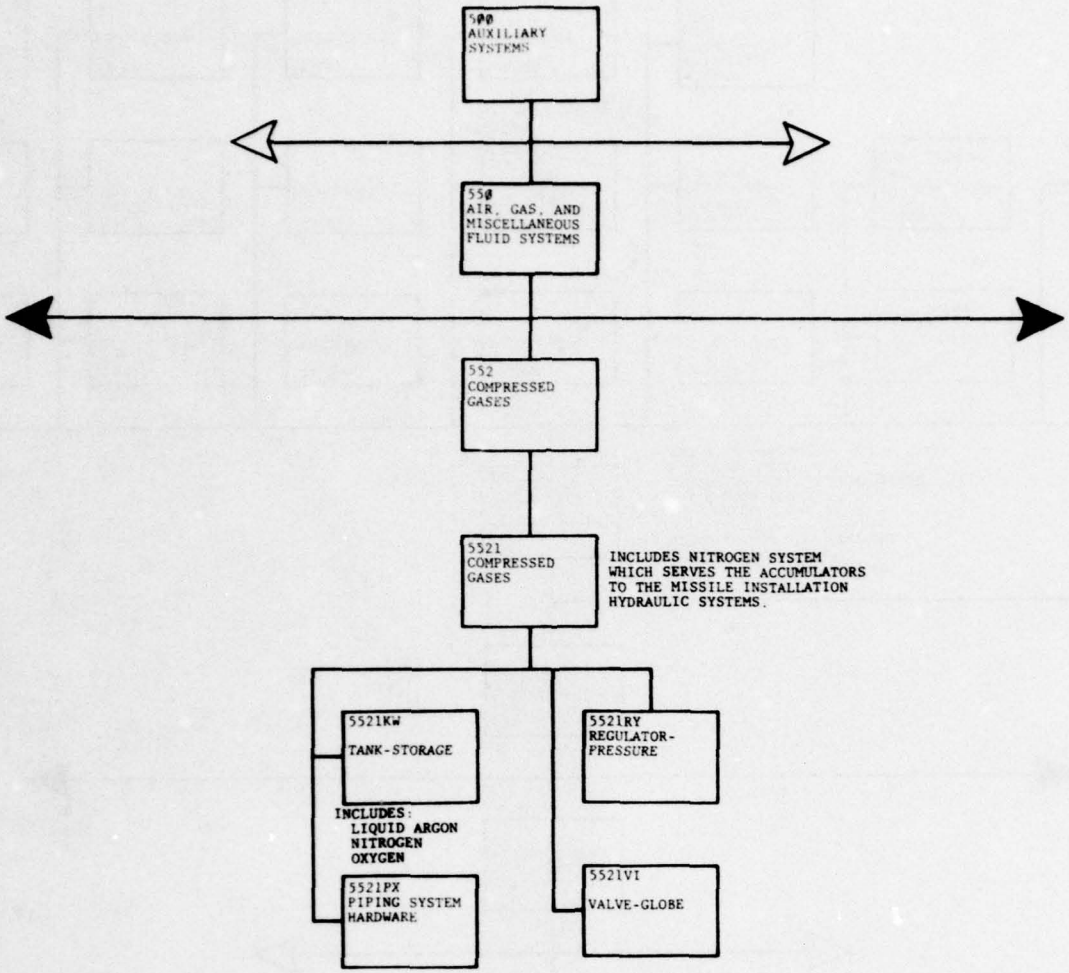

500 T000
AUXILIARY SYSTEMS
550
AIR, GAS, AND MISCELLANEOUS FLUID SYSTEMS
551 TF00
COMPRESSED AIR SYSTEMS
DOES NOT INCLUDE:
CONTROL AIR SYSTEM (221)
5513 TF04
DRY AIR SYSTEM
INCLUDES PIPING, VALVES, AIR PURIFIERS, FILTERS, AND ASSOCIATED FITTINGS MAKING UP THE DRY AIR SYSTEM. ALSO INCLUDES COMPONENTS ASSOCIATED WITH THE CONTROL AIR SYSTEM WHICH SERVE THE AUTOMATIC COMBUSTION CONTROL SYSTEM AND THE FEEDWATER CONTROL SYSTEM.
DOES NOT INCLUDE:
COMPONENTS INTEGRAL WITH EQUIPMENTS (W.S.)
5513A4 VALVE-SAFETY RELIEF
5513DM DEHYDRATOR-FILTER, DESSICCANT, HIGH PRESSURE AIR, SELF REAC
5513FK FILTER-FLUID, PRESSURE
5513GC GAGE-PRESSURE
5513JQ INDICATOR-LIQUID LEVEL, FLOW, WATER AND FUEL
5513HL HEATER-SPACE ELECTRIC, TYPE D RADIANT, TYPE T TUR, RAD PANEL
5513KK VALVE-PRESSURE REGULATING
5513K8 VALVE-CHECK, INLINE, $25 AND ABOVE
5513LE LIGHT-INDICATOR
5513MQ METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER
5513M7 MOTOR-AC OR DC
5513NN TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
INCLUDES: ALARM MODULE
5513NV TRAP-STEAM AND/OR AIR
5513PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
5513PS PANEL-ALARM
5513PX PIPING SYSTEM HARDWARE
INCLUDES: AIR RECEIVER
5513R9 VALVE-REGULATING, COMPRESSED GAS
5513T2 TEST EQUIPMENT-ANALYZER
INCLUDES: DETECTOR, MOISTURE MONITOR
5513T1 TEST FIXTURES, SETS, STANDS AND CALIBRATORS, ALL TYPES
INCLUDES: HYGROMETER METER, DEW/FROST DIAL INDICATOR, ELECTROLYTIC
5513UX RELAY-ELECTRICAL
5513VB VALVE-ANGLE
DDG-37 CLASS
PREPARED 11-30-77



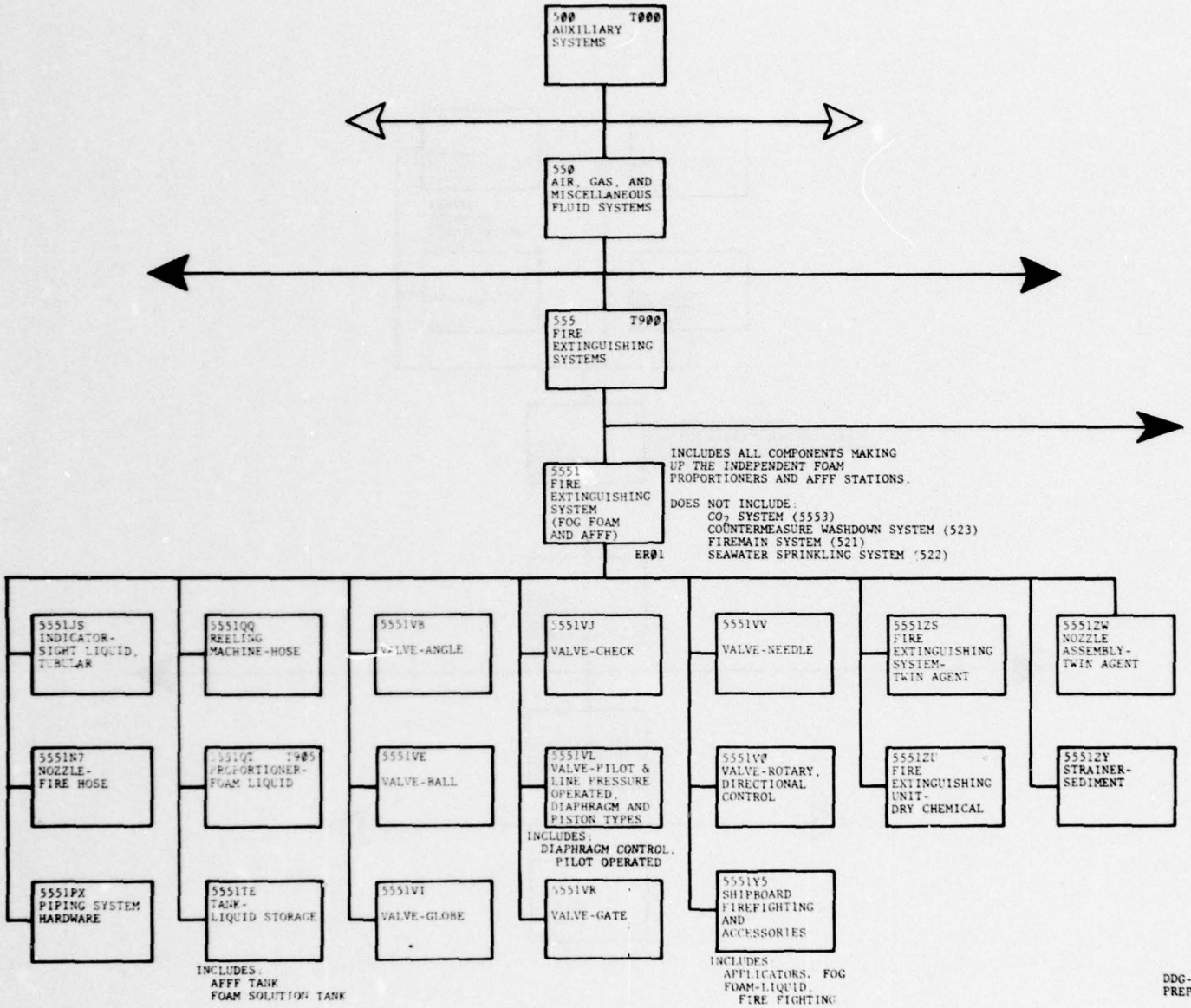
DDG-37 CLASS
PREPARED 11-30-77

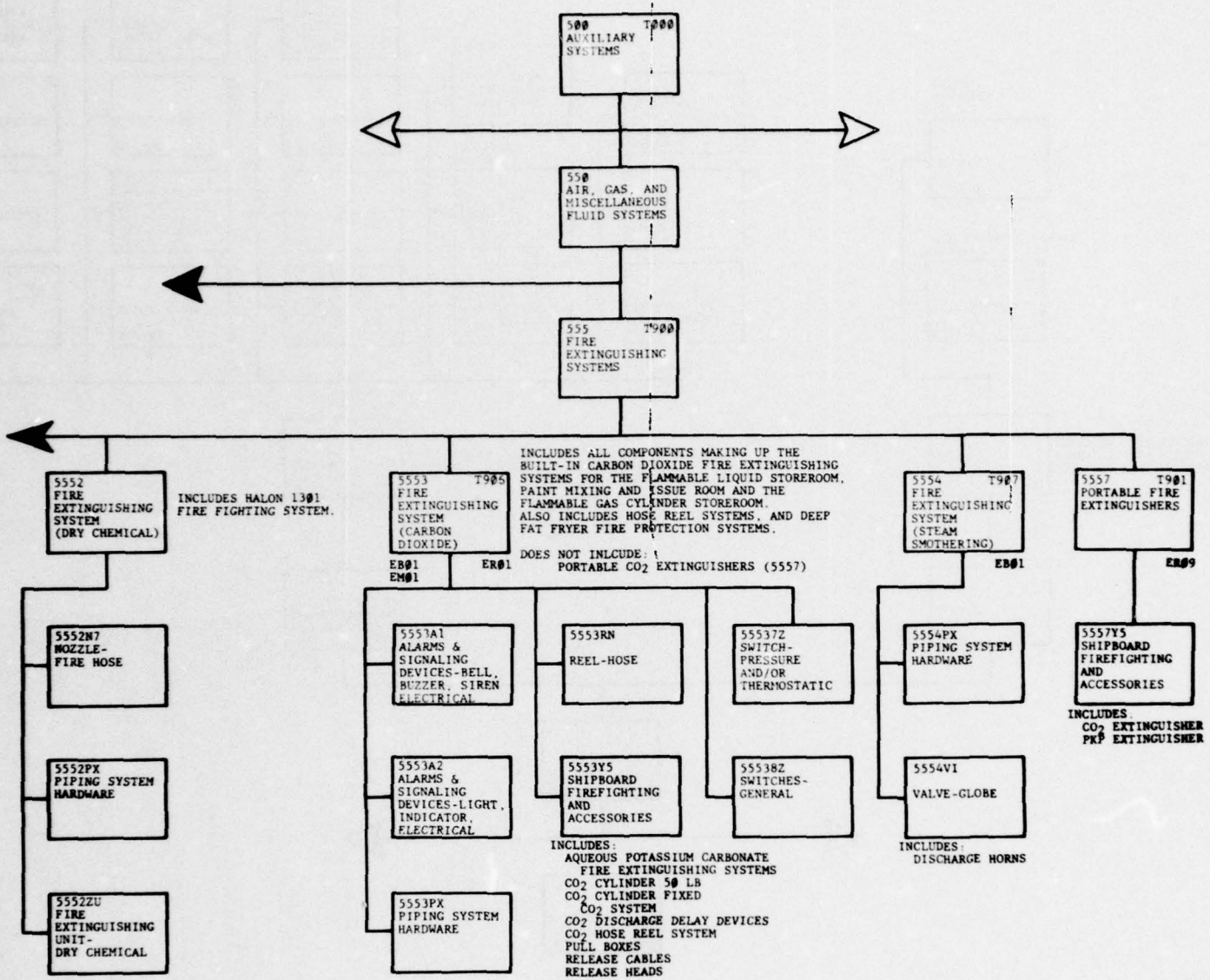


DDG-37 CLASS
PREPARED 8-11-77

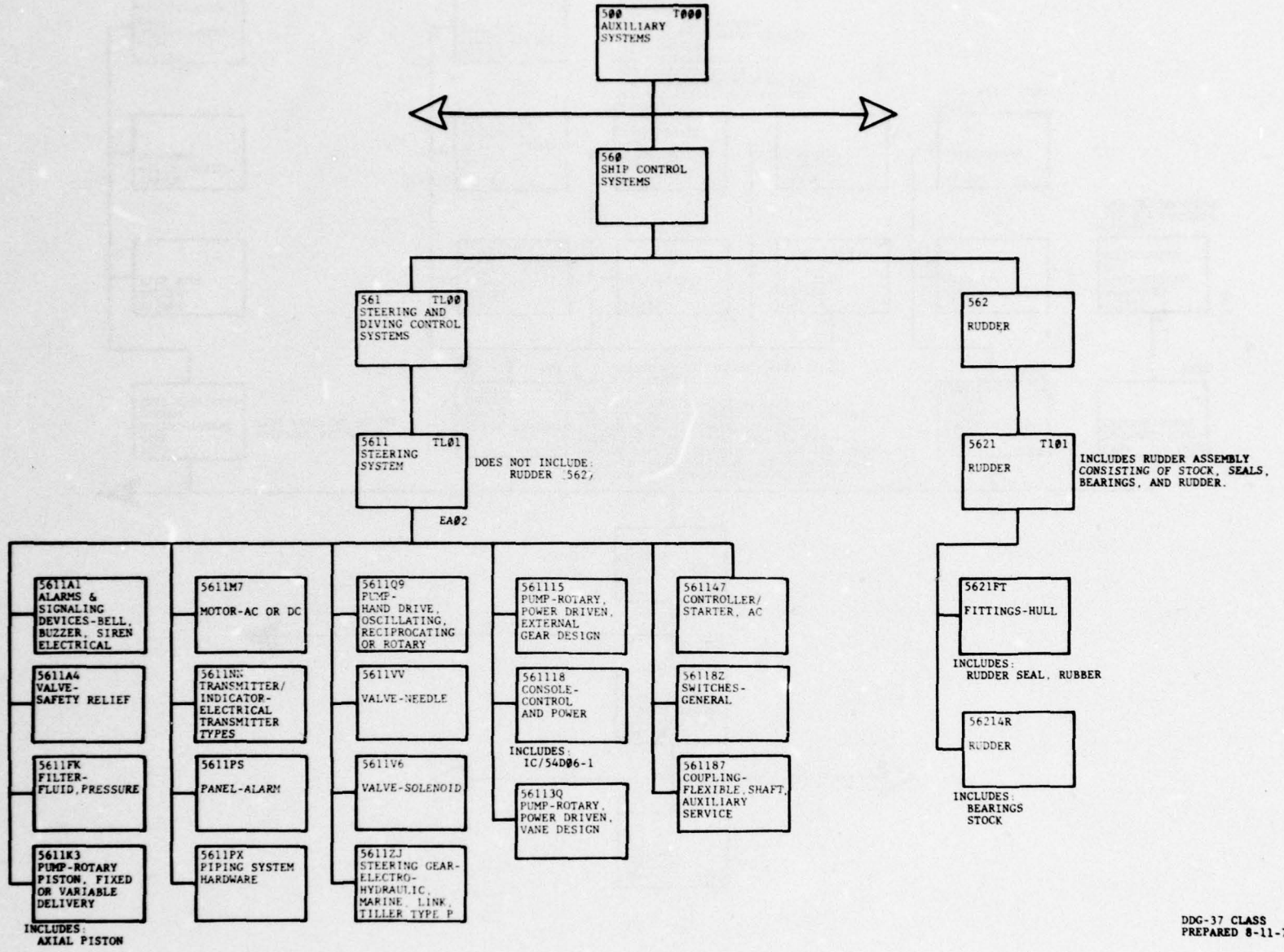


DDG-37 CLASS
PREPARED 11-15-77

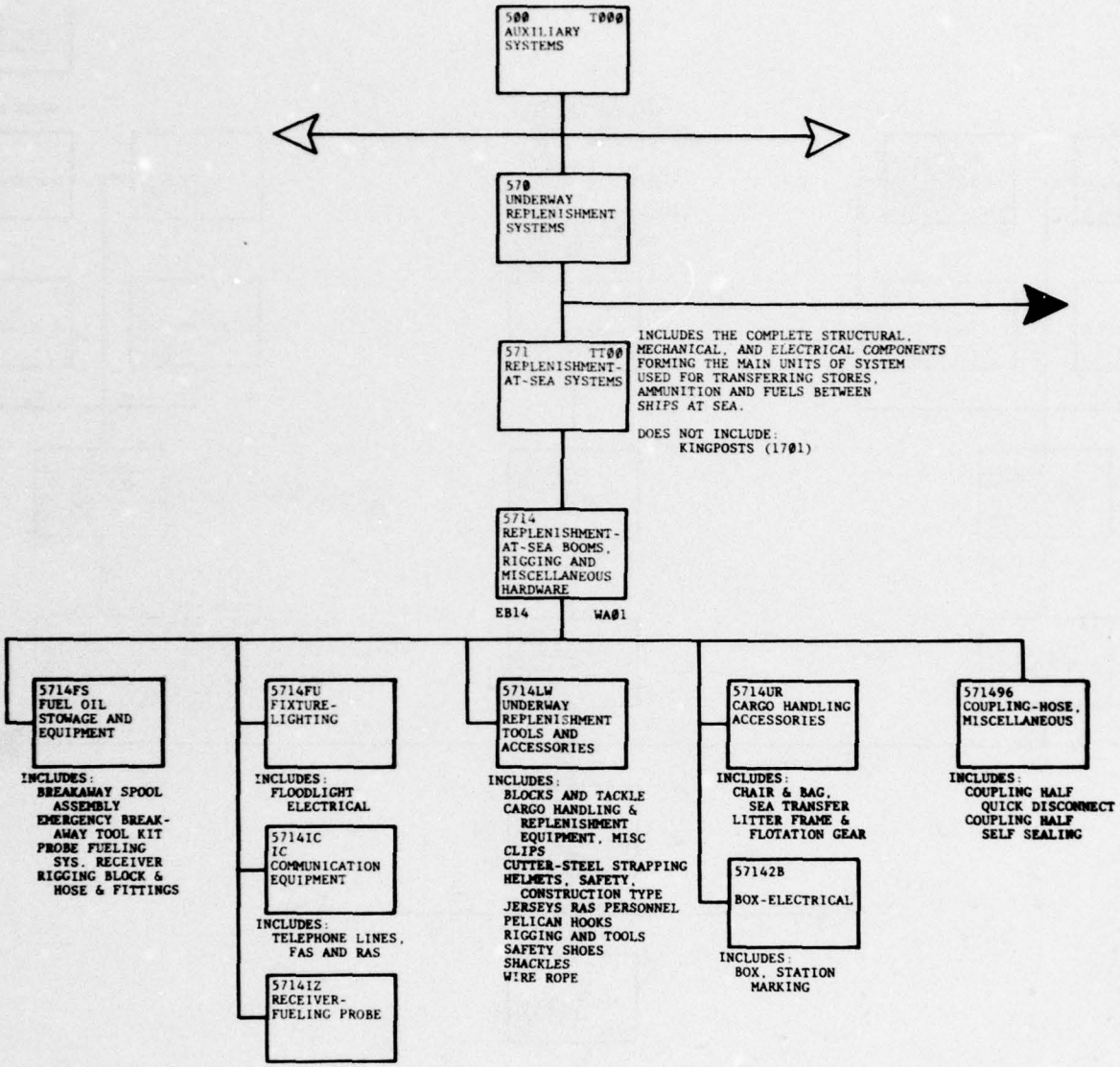

500 T000
AUXILIARY SYSTEMS
550
AIR, GAS, AND MISCELLANEOUS FLUID SYSTEMS
555 T900
FIRE EXTINGUISHING SYSTEMS
5551
FIRE EXTINGUISHING SYSTEM (FOG FOAM AND AFFF)
ER01
INCLUDES ALL COMPONENTS MAKING UP THE INDEPENDENT FOAM PROPORTIONERS AND AFFF STATIONS.
DOES NOT INCLUDE:
CO_2 SYSTEM (5553)
COUNTERMEASURE WASHDOWN SYSTEM (523)
FIREMAIN SYSTEM (521)
SEAWATER SPRINKLING SYSTEM (522)
5551JS INDICATOR-SIGHT LIQUID, TUBULAR
5551N7 NOZZLE-FIRE HOSE
5551PX PIPING SYSTEM HARDWARE
5551QQ REELING MACHINE-HOSE
5551QT T905 PROPORTIONER-FOAM LIQUID
5551TE TANK-LIQUID STORAGE
INCLUDES:
AFFF TANK
FOAM SOLUTION TANK
5551VB VALVE-ANGLE
5551VE VALVE-BALL
5551VI VALVE-GLOBE
5551VJ VALVE-CHECK
5551VL VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
INCLUDES:
DIAPHRAGM CONTROL, PILOT OPERATED
5551VR VALVE-GATE
5551VV VALVE-NEEDLE
5551VW VALVE-ROTARY, DIRECTIONAL CONTROL
5551Y5 SHIPBOARD FIREFIGHTING AND ACCESSORIES
INCLUDES:
APPLICATORS, FOG
FOAM-LIQUID, FIRE FIGHTING
5551ZS FIRE EXTINGUISHING SYSTEM-TWIN AGENT
5551ZU FIRE EXTINGUISHING UNIT-DRY CHEMICAL
5551ZW NOZZLE ASSEMBLY-TWIN AGENT
5551ZY STRAINER-SEDIMENT
DDG-37 CLASS
PREPARED 8-11-77



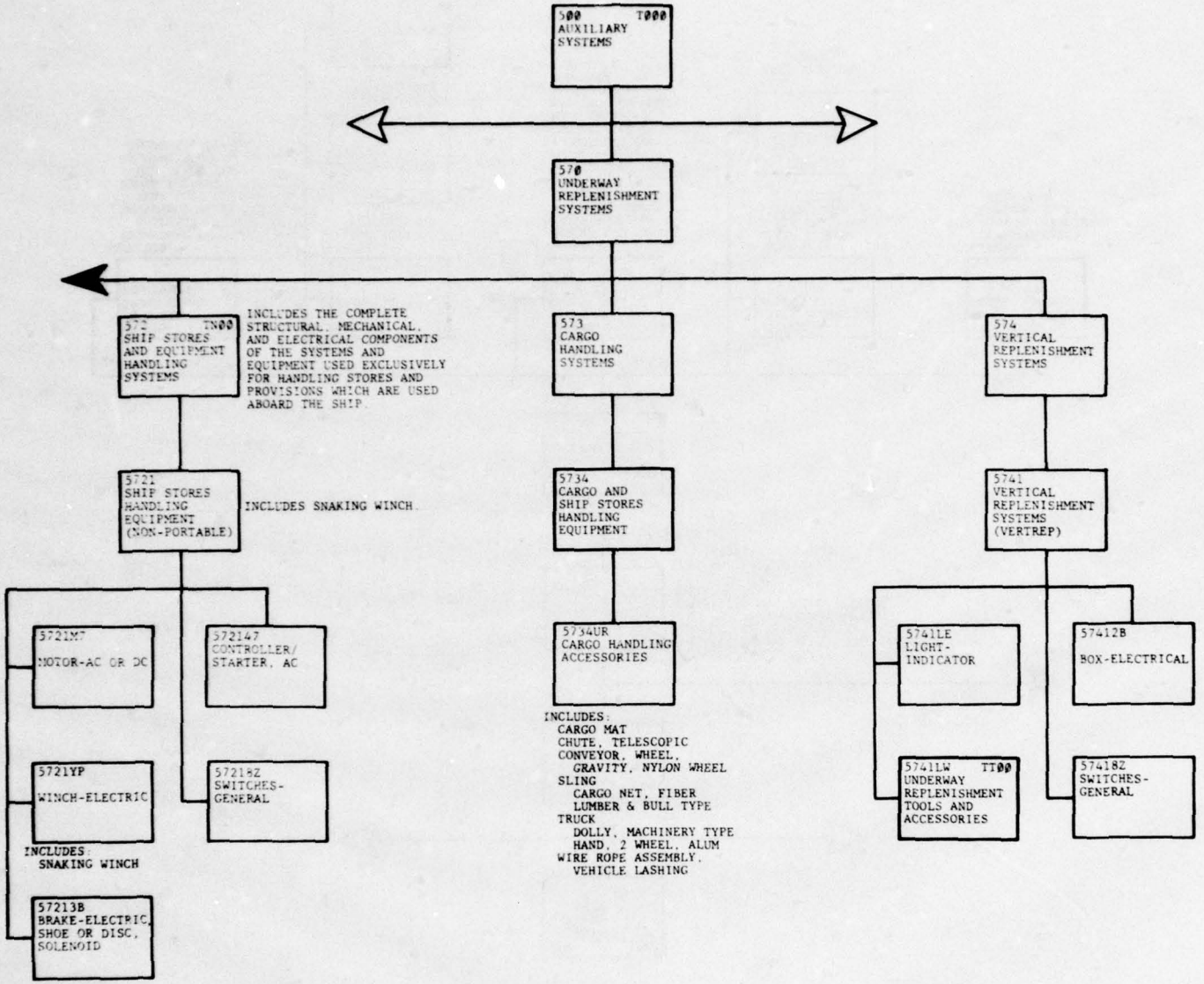
DDG-37 CLASS
PREPARED 8-11-77



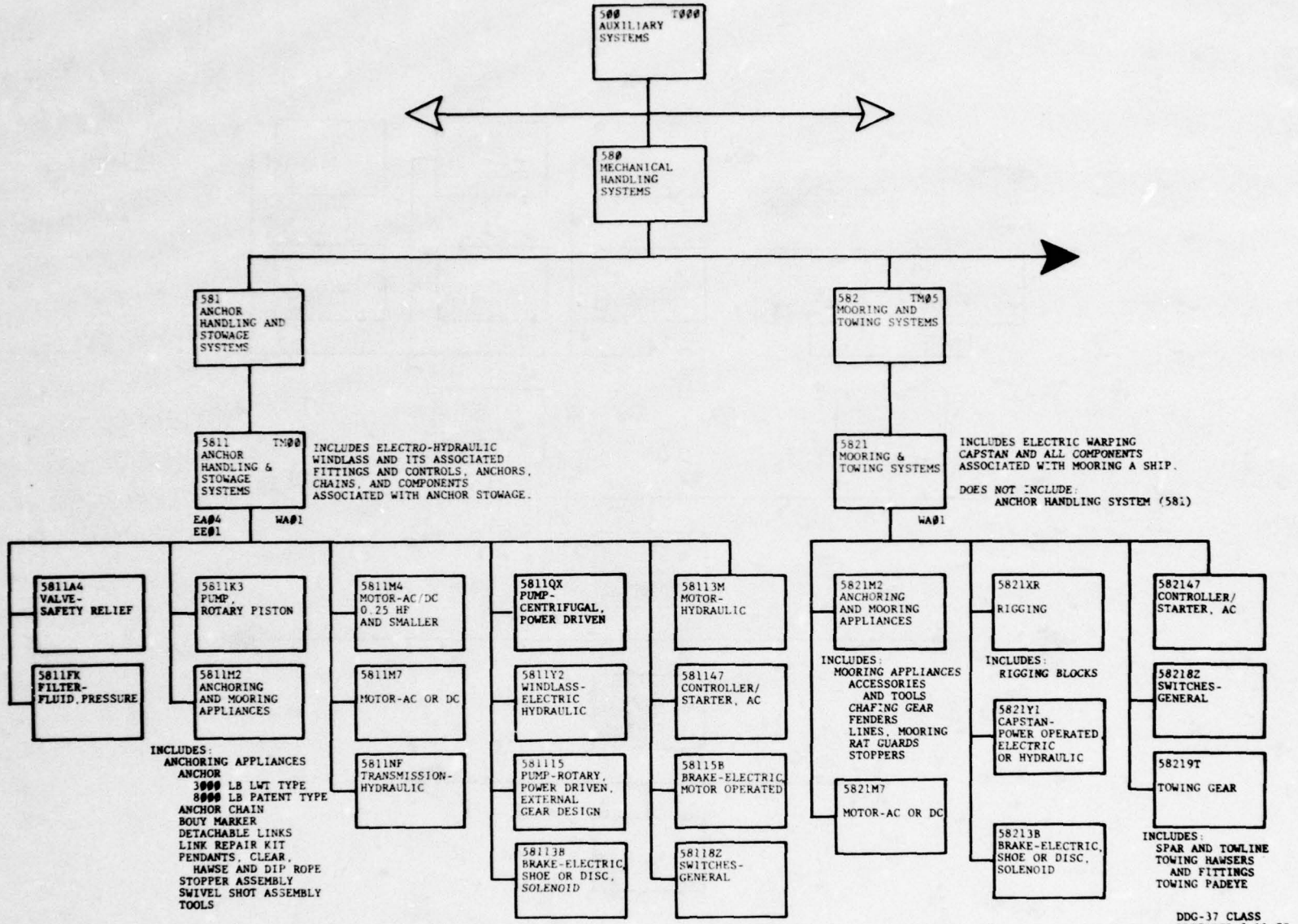
DDG-37 CLASS
PREPARED 8-11-77

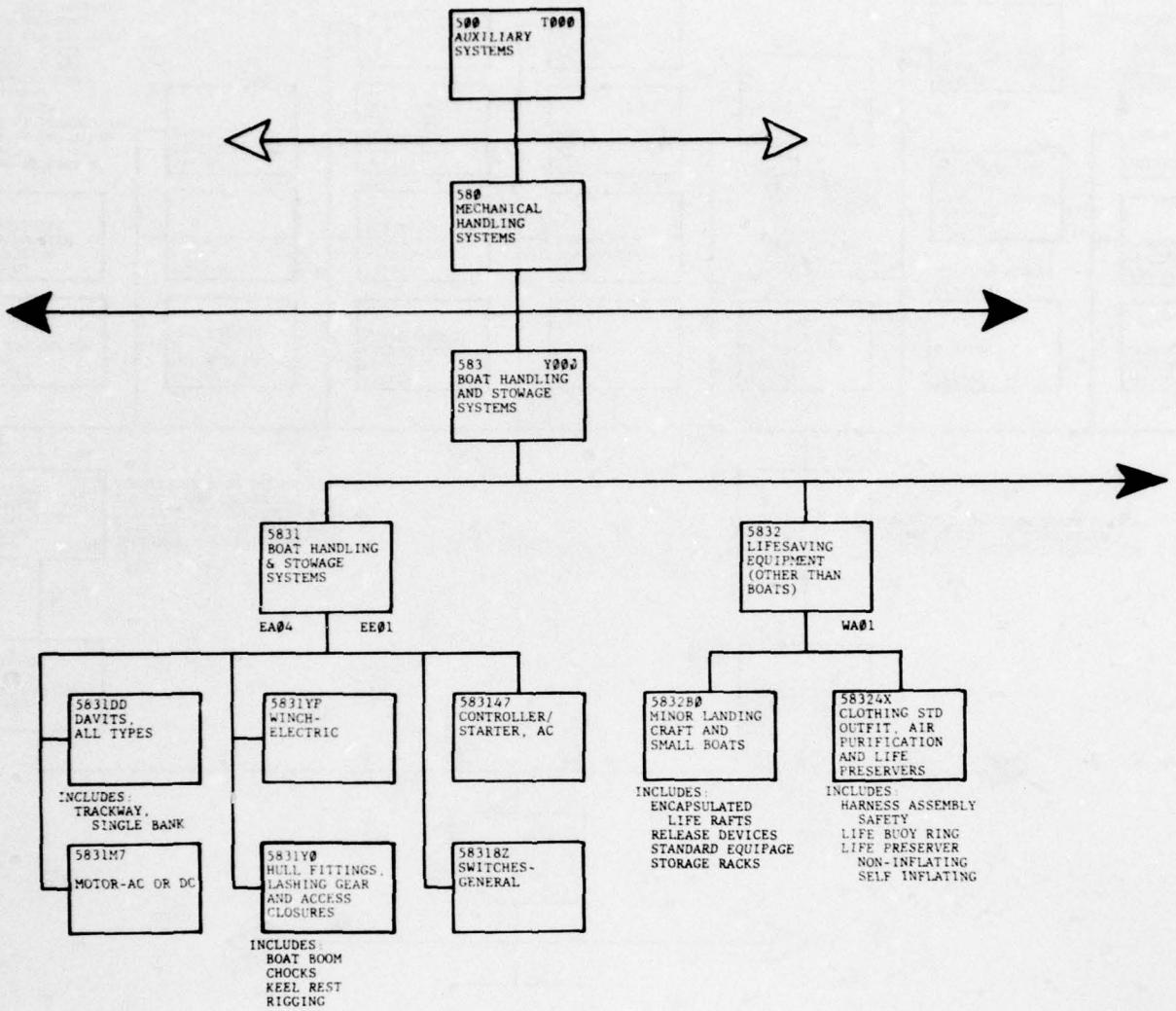


DDG-37 CLASS
PREPARED 11-15-77

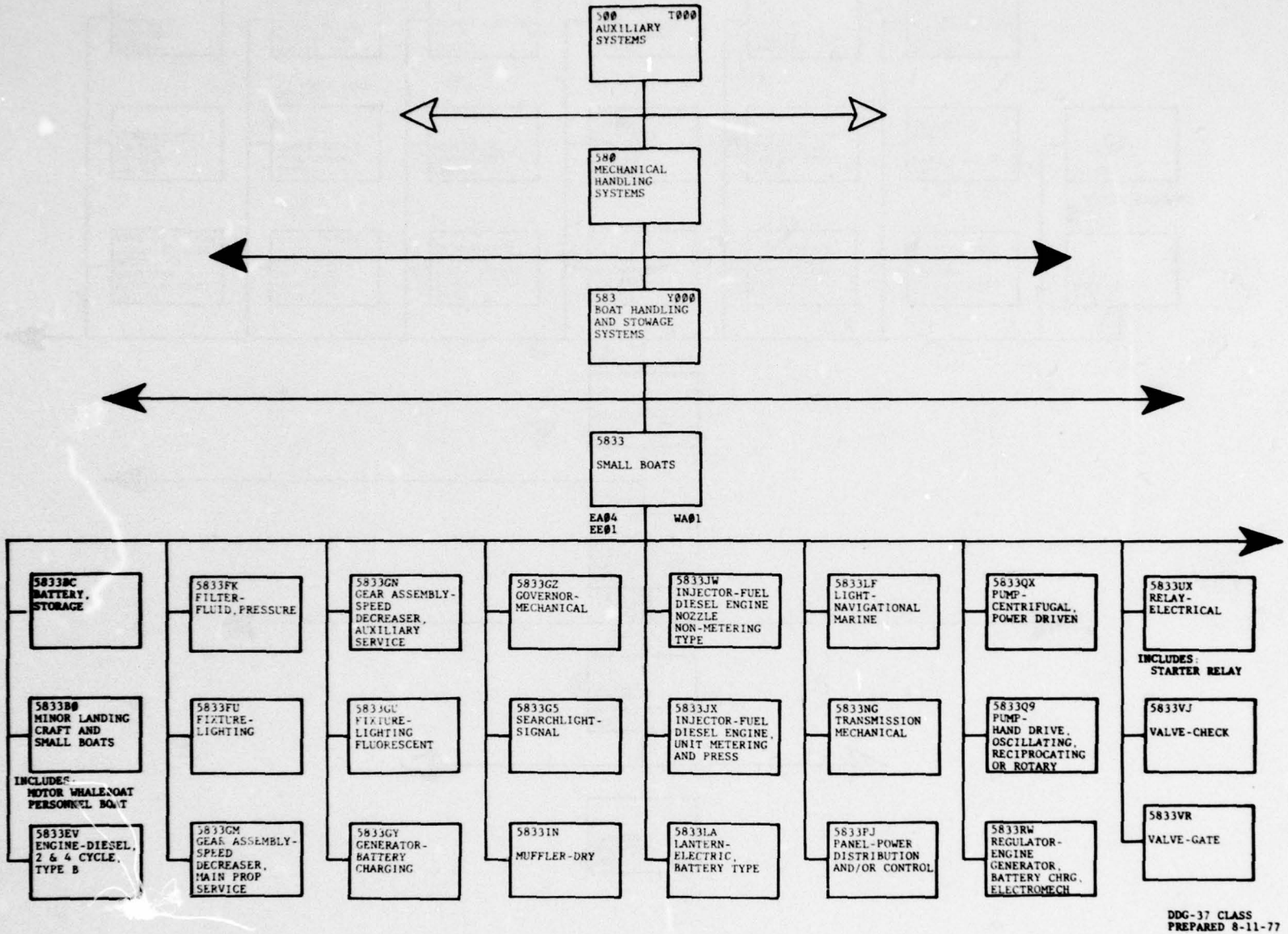


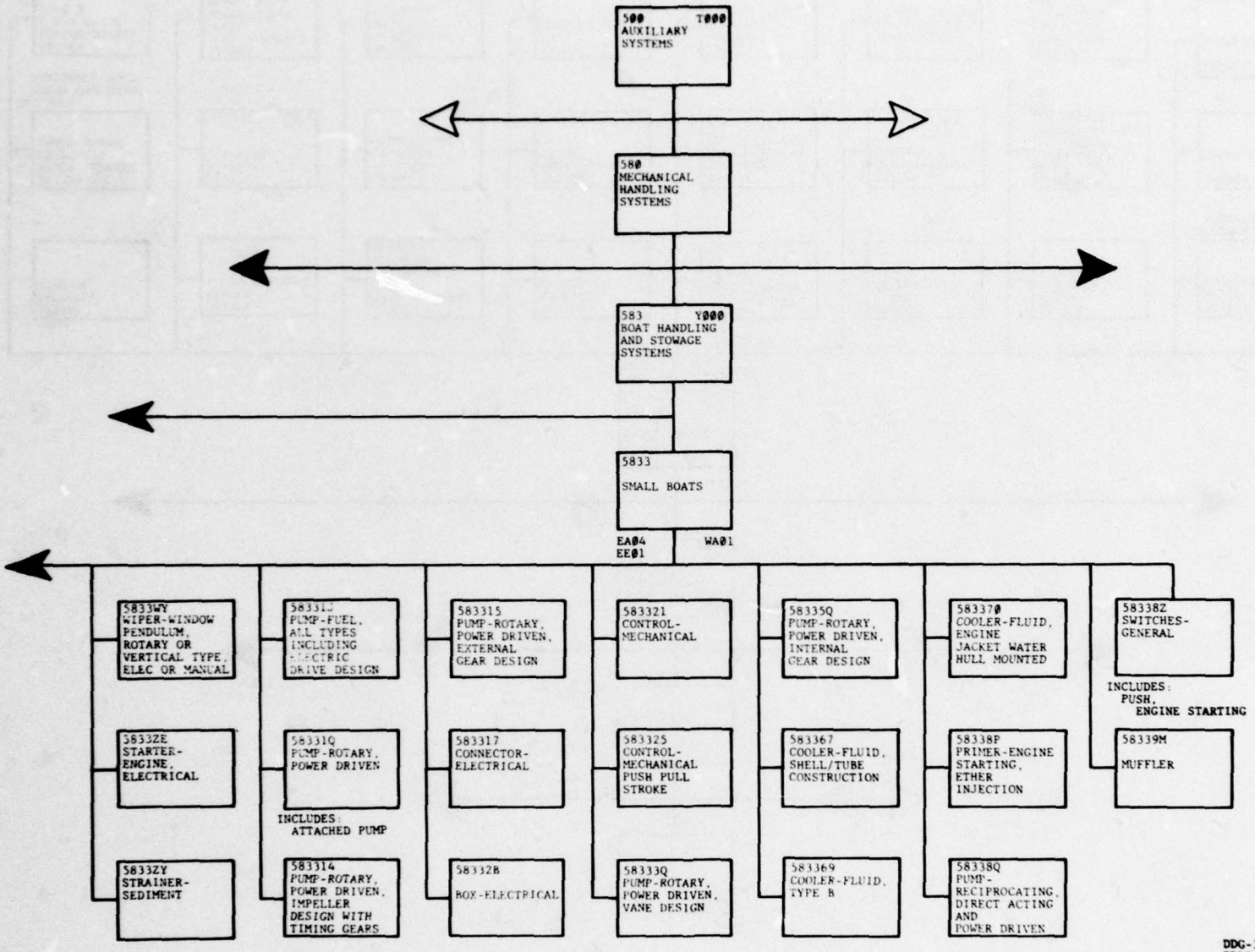
DDG-37 CLASS
PREPARED 8-11-77


5ØØ TØØØ
AUXILIARY SYSTEMS
58Ø
MECHANICAL HANDLING SYSTEMS
581
ANCHOR HANDLING AND STOWAGE SYSTEMS
582 TMØ5
MOORING AND TOWING SYSTEMS
5811 TMØØ
ANCHOR HANDLING & STOWAGE SYSTEMS
INCLUDES ELECTRO-HYDRAULIC WINDLASS AND ITS ASSOCIATED FITTINGS AND CONTROLS, ANCHORS, CHAINS, AND COMPONENTS ASSOCIATED WITH ANCHOR STOWAGE.
EAØ4
EEØ1
WAØ1
5821
MOORING & TOWING SYSTEMS
INCLUDES ELECTRIC WARPING CAPSTAN AND ALL COMPONENTS ASSOCIATED WITH MOORING A SHIP.
DOES NOT INCLUDE: ANCHOR HANDLING SYSTEM (581)
WAØ1
5811A4 VALVE-SAFETY RELIEF
5811FK FILTER-FLUID, PRESSURE
5811K3 PUMP, ROTARY PISTON
5811M2 ANCHORING AND MOORING APPLIANCES
INCLUDES:
ANCHORING APPLIANCES
ANCHOR
3ØØØ LB LWT TYPE
8ØØØ LB PATENT TYPE
ANCHOR CHAIN
BOUY MARKER
DETACHABLE LINKS
LINK REPAIR KIT
PENDANTS, CLEAR, HAWSE AND DIP ROPE
STOPPER ASSEMBLY
SWIVEL SHOT ASSEMBLY
TOOLS
5811M4 MOTOR-AC/DC 0.25 HF AND SMALLER
5811M7 MOTOR-AC OR DC
5811NF TRANSMISSION-HYDRAULIC
5811QX PUMP-CENTRIFUGAL, POWER DRIVEN
5811Y2 WINDLASS-ELECTRIC HYDRAULIC
581115 PUMP-ROTARY, POWER DRIVEN, EXTERNAL GEAR DESIGN
58113B BRAKE-ELECTRIC, SHOE OR DISC, SOLENOID
58113M MOTOR-HYDRAULIC
581147 CONTROLLER/STARTER, AC
58115B BRAKE-ELECTRIC, MOTOR OPERATED
58118Z SWITCHES-GENERAL
5821M2 ANCHORING AND MOORING APPLIANCES
INCLUDES:
MOORING APPLIANCES
ACCESSORIES AND TOOLS
CHAFING GEAR
FENDERS
LINES, MOORING
RAT GUARDS
STOPPERS
5821M7 MOTOR-AC OR DC
5821XR RIGGING
INCLUDES:
RIGGING BLOCKS
5821Y1 CAPSTAN-POWER OPERATED, ELECTRIC OR HYDRAULIC
58213B BRAKE-ELECTRIC, SHOE OR DISC, SOLENOID
582147 CONTROLLER/STARTER, AC
58218Z SWITCHES-GENERAL
58219T TOWING GEAR
INCLUDES:
SPAR AND TOWLINE
TOWING HAWSERS AND FITTINGS
TOWING PADEYE
DDG-37 CLASS
PREPARED 8-11-77

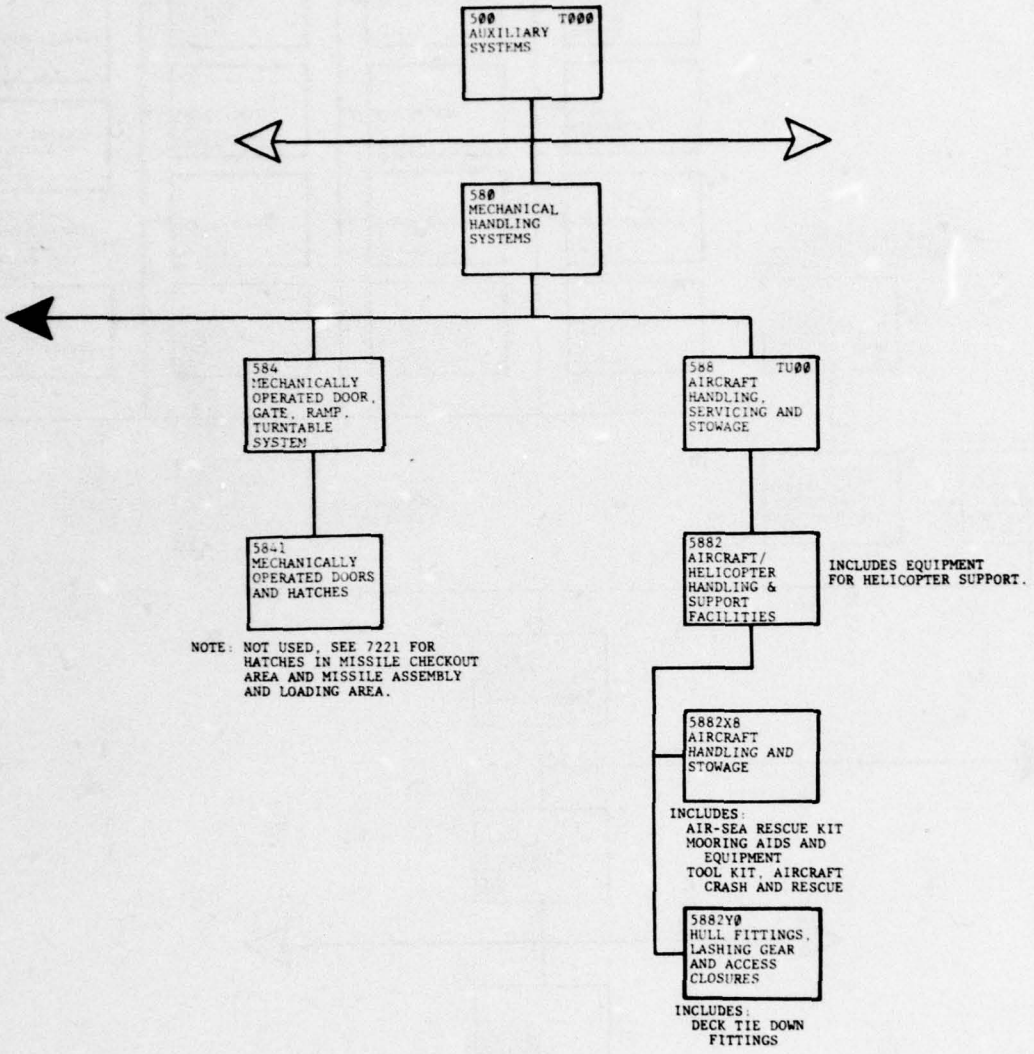


DDG-37 CLASS
PREPARED 11-15-77

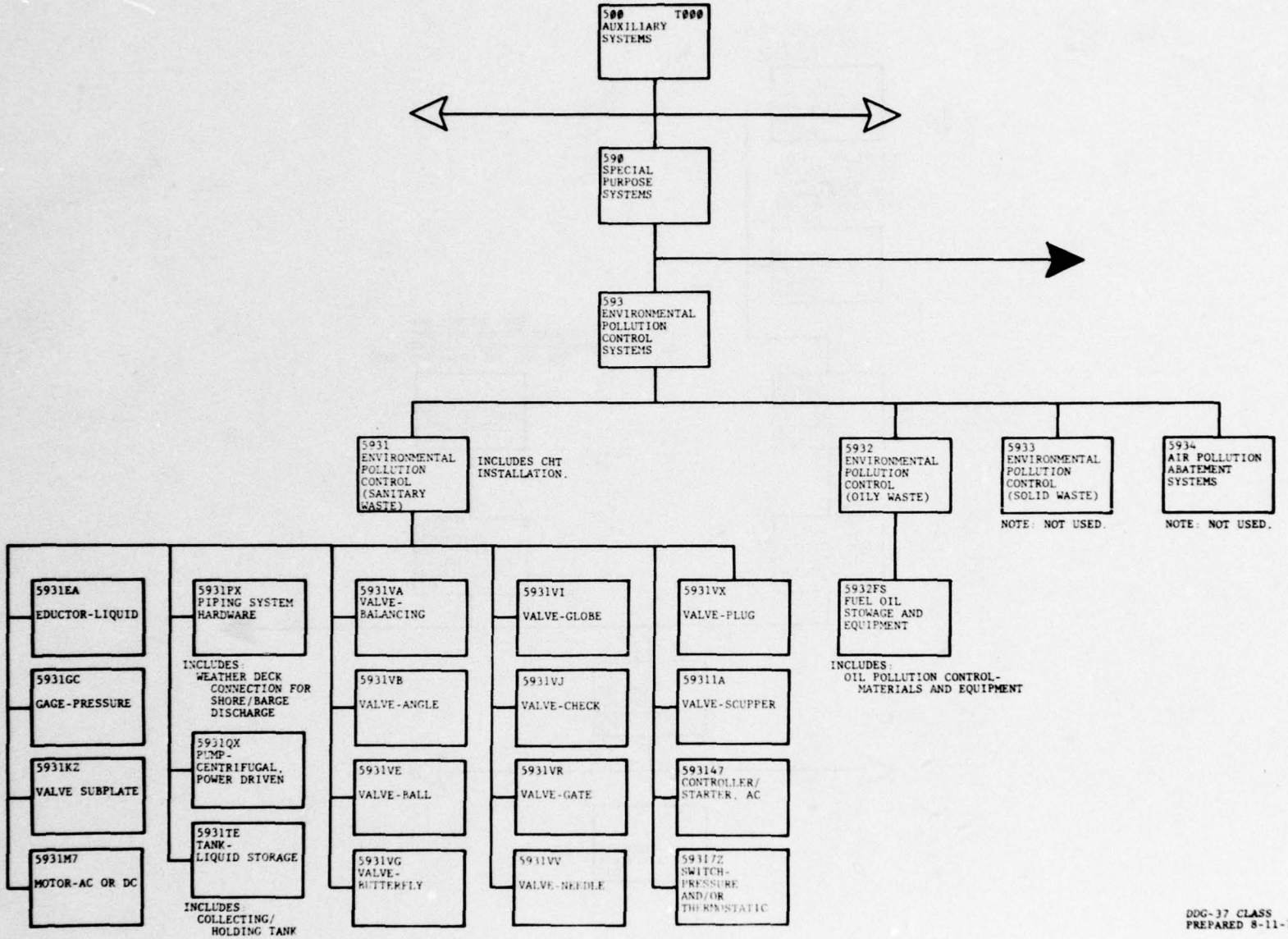

500 T000
AUXILIARY SYSTEMS
580
MECHANICAL HANDLING SYSTEMS
583 Y000
BOAT HANDLING AND STOWAGE SYSTEMS
5833
SMALL BOATS
EA04
EE01
WA01
5833BC
BATTERY, STORAGE
5833B0
MINOR LANDING CRAFT AND SMALL BOATS
INCLUDES:
MOTOR WHALEBOAT
PERSONNEL BOAT
5833EV
ENGINE-DIESEL, 2 & 4 CYCLE, TYPE B
5833FK
FILTER-FLUID, PRESSURE
5833FU
FIXTURE-LIGHTING
5833GM
GEAR ASSEMBLY-SPEED DECREASER, MAIN PROP SERVICE
5833GN
GEAR ASSEMBLY-SPEED DECREASER, AUXILIARY SERVICE
5833GU
FIXTURE-LIGHTING FLUORESCENT
5833GY
GENERATOR-BATTERY CHARGING
5833GZ
GOVERNOR-MECHANICAL
5833G5
SEARCHLIGHT-SIGNAL
5833IN
MUFFLER-DRY
5833JW
INJECTOR-FUEL DIESEL ENGINE NOZZLE NON-METERING TYPE
5833JX
INJECTOR-FUEL DIESEL ENGINE, UNIT METERING AND PRESS
5833LA
LANTERN-ELECTRIC, BATTERY TYPE
5833LF
LIGHT-NAVIGATIONAL MARINE
5833NG
TRANSMISSION MECHANICAL
5833PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
5833QX
PUMP-CENTRIFUGAL, POWER DRIVEN
5833Q9
PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY
5833RW
REGULATOR-ENGINE GENERATOR, BATTERY CHRG, ELECTROMECH
5833UX
RELAY-ELECTRICAL
INCLUDES:
STARTER RELAY
5833VJ
VALVE-CHECK
5833VR
VALVE-GATE
DDG-37 CLASS
PREPARED 8-11-77



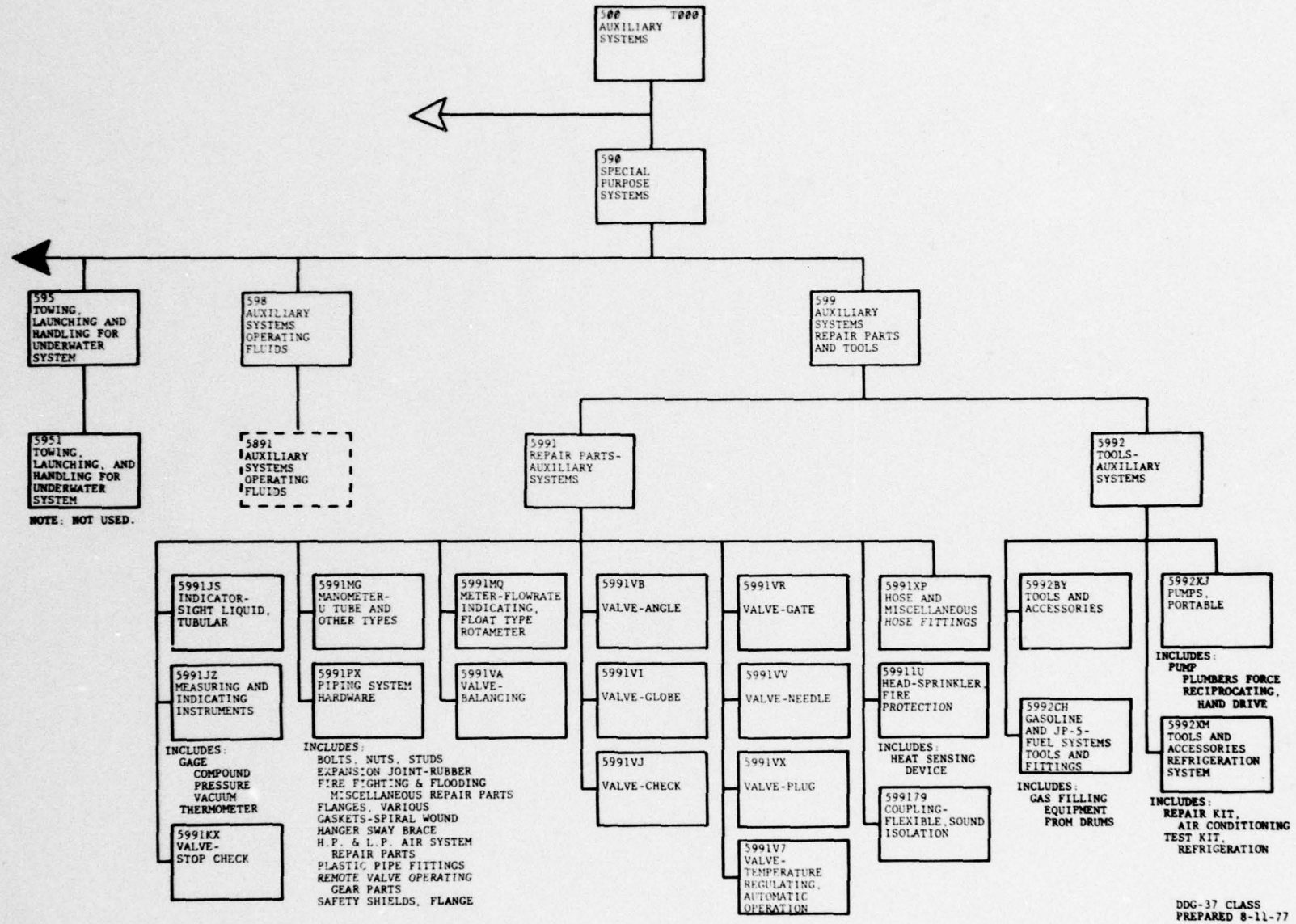
DDG-37 CLASS
PREPARED 8-11-77



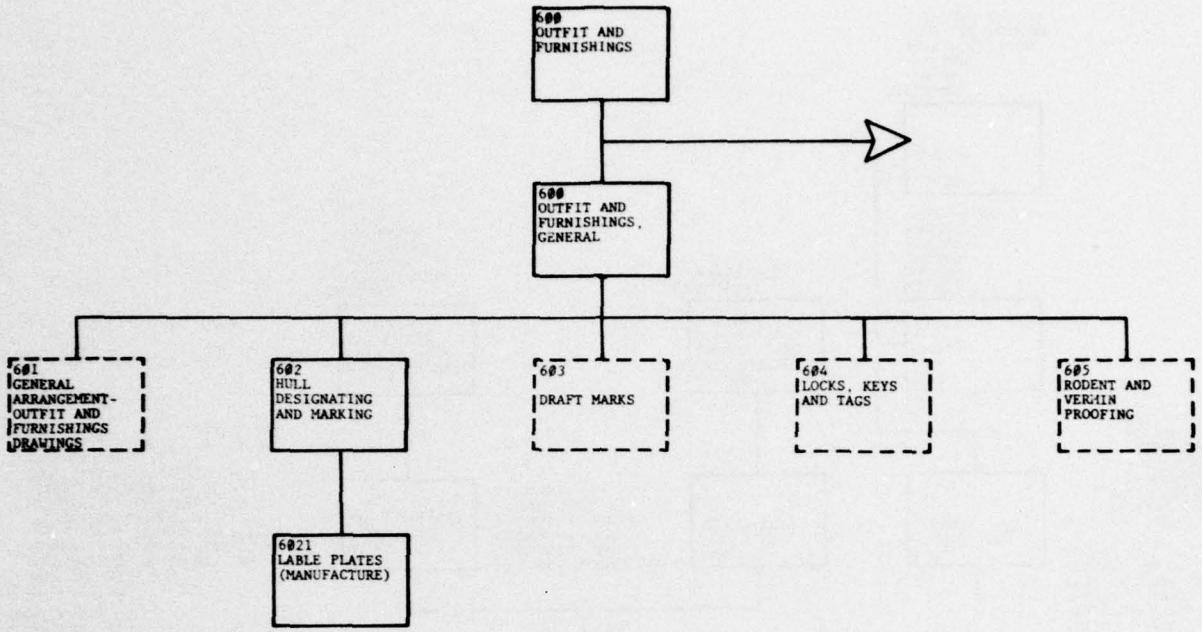
DDG-37 CLASS
PREPARED 8-11-77

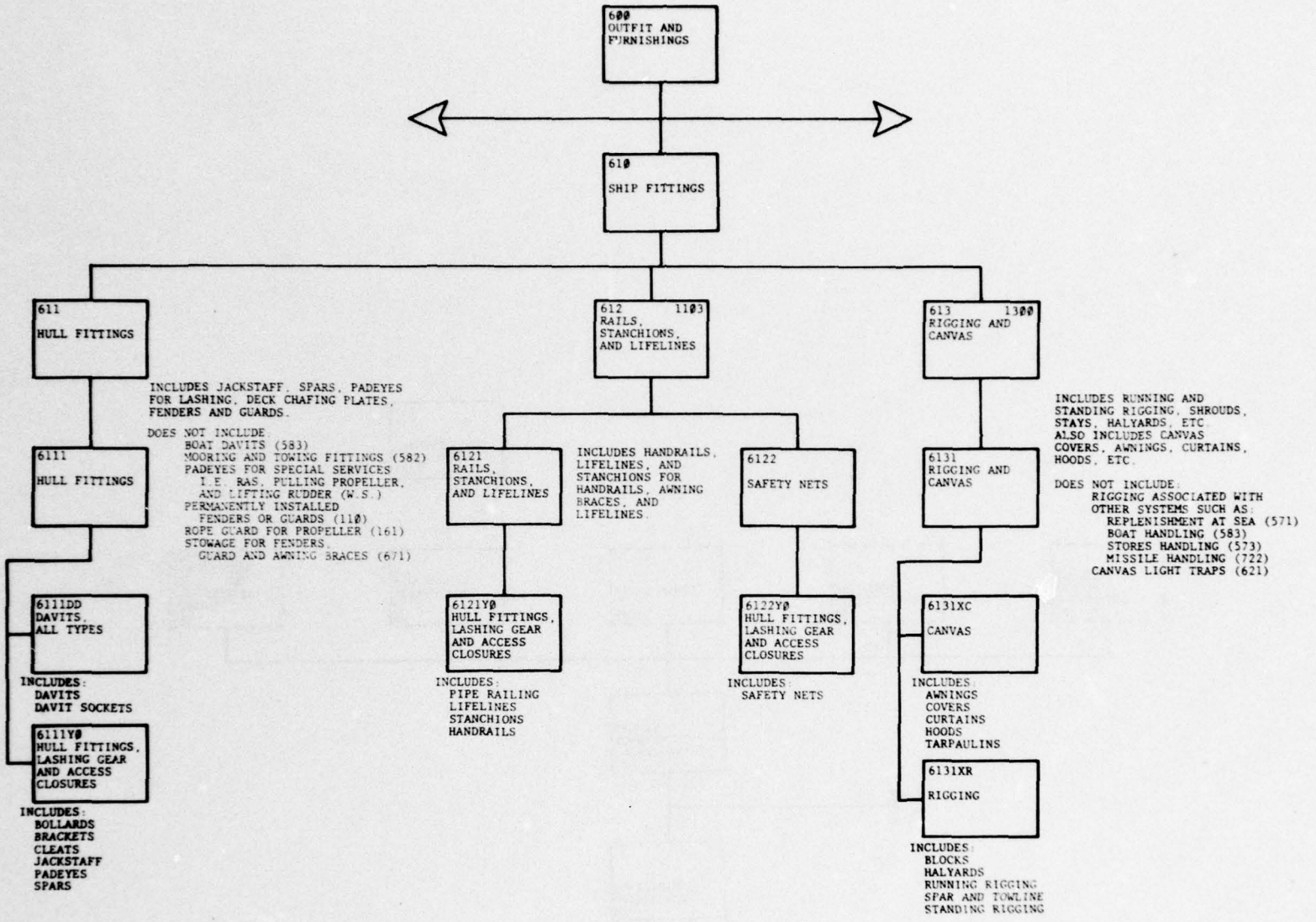


DDG-37 CLASS
PREPARED 8-11-77

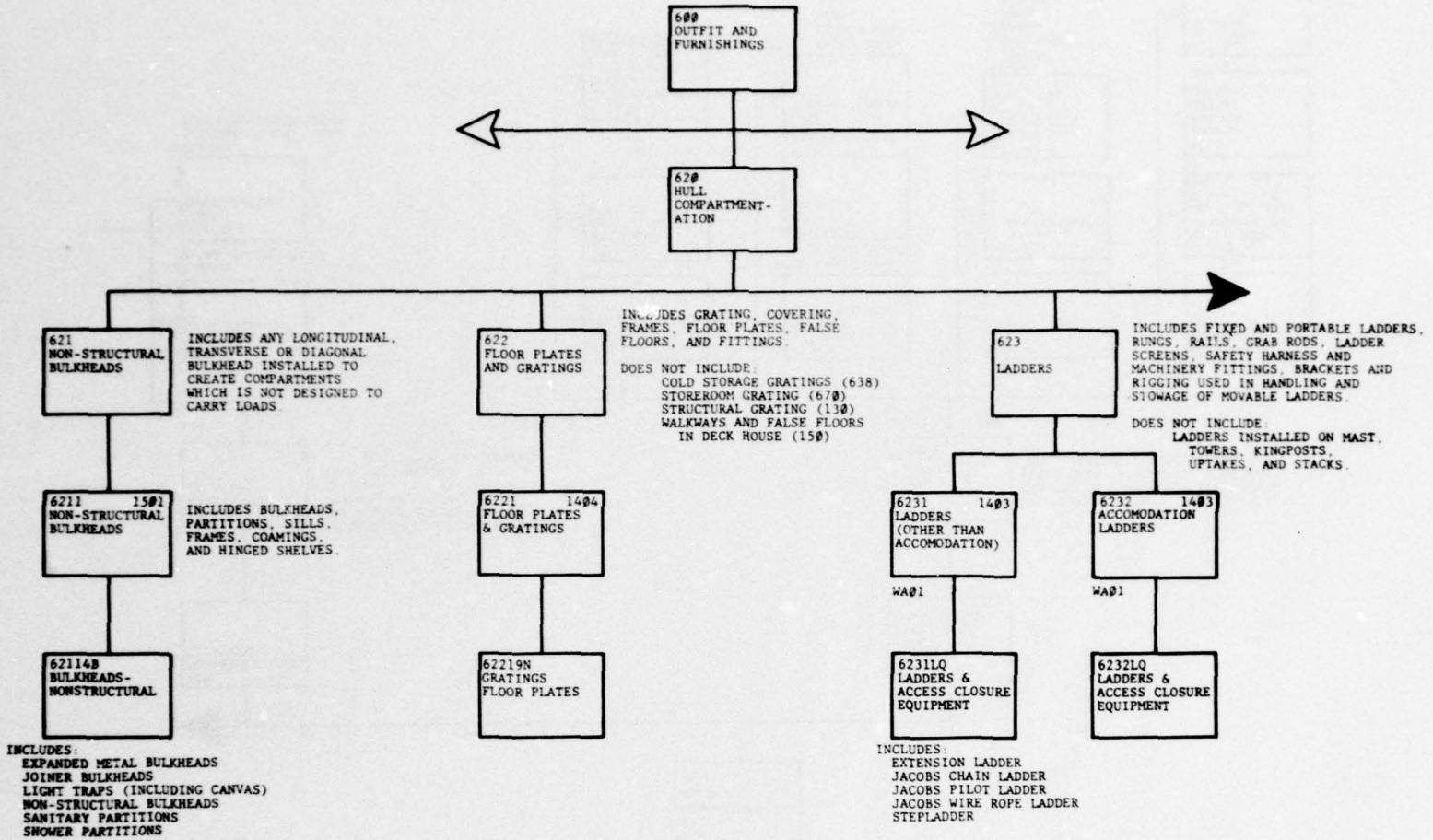

5000 T000
AUXILIARY SYSTEMS
590
SPECIAL PURPOSE SYSTEMS
595
TOWING, LAUNCHING AND HANDLING FOR UNDERWATER SYSTEM
598
AUXILIARY SYSTEMS OPERATING FLUIDS
599
AUXILIARY SYSTEMS REPAIR PARTS AND TOOLS
5951
TOWING, LAUNCHING, AND HANDLING FOR UNDERWATER SYSTEM
NOTE: NOT USED.
5891
AUXILIARY SYSTEMS OPERATING FLUIDS
5991
REPAIR PARTS-AUXILIARY SYSTEMS
5992
TOOLS-AUXILIARY SYSTEMS
5991JS
INDICATOR-SIGHT LIQUID, TUBULAR
5991JZ
MEASURING AND INDICATING INSTRUMENTS
INCLUDES:
GAGE
COMPOUND PRESSURE VACUUM
THERMOMETER
5991KX
VALVE-STOP CHECK
5991MG
MANOMETER-U TUBE AND OTHER TYPES
5991PX
PIPING SYSTEM HARDWARE
INCLUDES:
BOLTS, NUTS, STUDS
EXPANSION JOINT-RUBBER
FIRE FIGHTING & FLOODING MISCELLANEOUS REPAIR PARTS
FLANGES, VARIOUS
GASKETS-SPIRAL WOUND
HANGER SWAY BRACE
H.P. & L.P. AIR SYSTEM REPAIR PARTS
PLASTIC PIPE FITTINGS
REMOTE VALVE OPERATING GEAR PARTS
SAFETY SHIELDS, FLANGE
5991MQ
METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER
5991VA
VALVE-BALANCING
5991VB
VALVE-ANGLE
5991VI
VALVE-GLOBE
5991VJ
VALVE-CHECK
5991VR
VALVE-GATE
5991VV
VALVE-NEEDLE
5991VX
VALVE-PLUG
5991V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
5991XP
HOSE AND MISCELLANEOUS HOSE FITTINGS
5991U
HEAD-SPRINKLER, FIRE PROTECTION
INCLUDES:
HEAT SENSING DEVICE
599179
COUPLING-FLEXIBLE, SOUND ISOLATION
5992BY
TOOLS AND ACCESSORIES
5992CH
GASOLINE AND JP-5-FUEL SYSTEMS TOOLS AND FITTINGS
INCLUDES:
GAS FILLING EQUIPMENT FROM DRUMS
5992XJ
PUMPS, PORTABLE
INCLUDES:
PUMP
PLUMBERS FORCE RECIPROCATING, HAND DRIVE
5992XM
TOOLS AND ACCESSORIES REFRIGERATION SYSTEM
INCLUDES:
REPAIR KIT, AIR CONDITIONING TEST KIT, REFRIGERATION
DDG-37 CLASS
PREPARED 8-11-77

165166

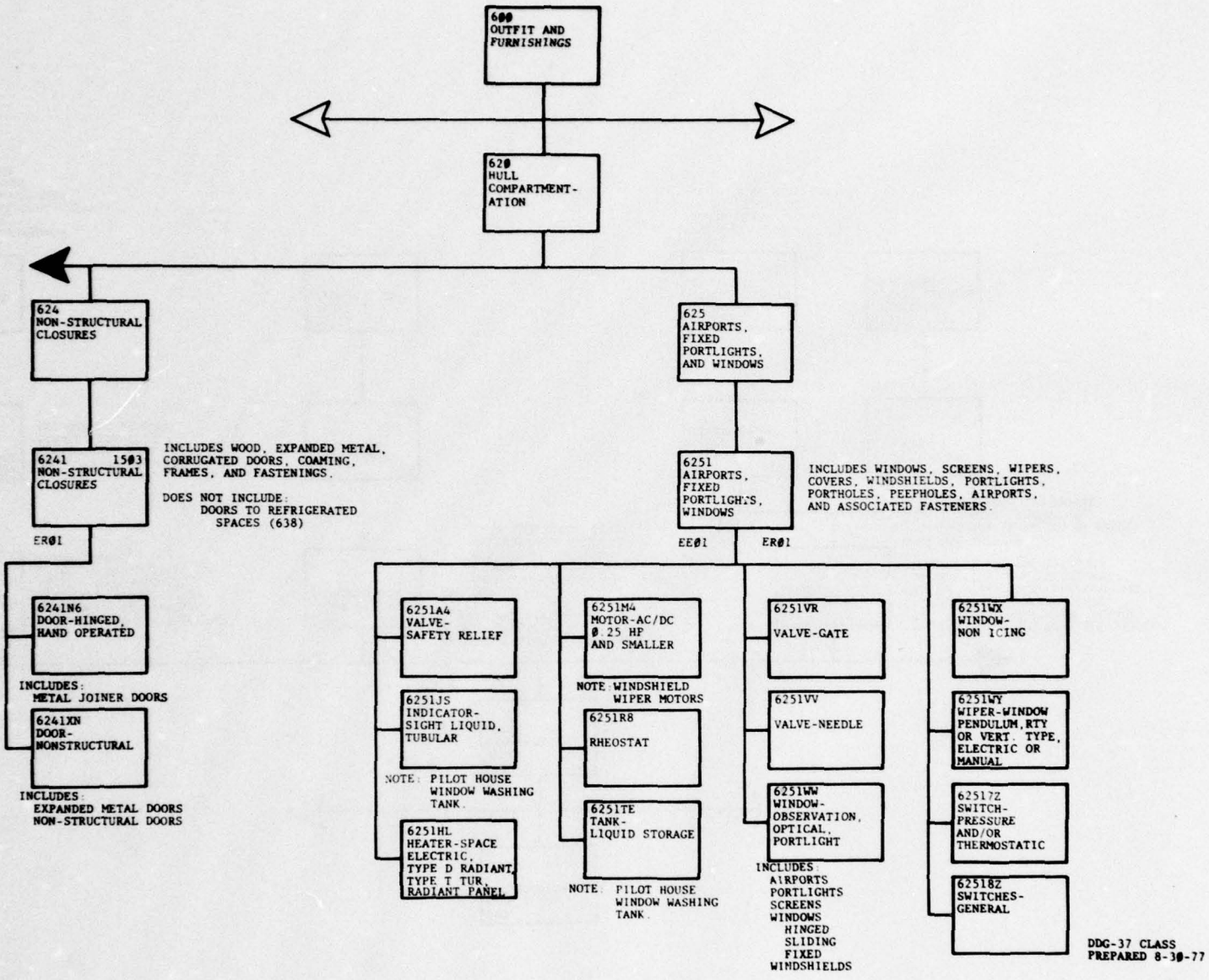

600
OUTFIT AND FURNISHINGS
600
OUTFIT AND FURNISHINGS, GENERAL
601
GENERAL ARRANGEMENT-OUTFIT AND FURNISHINGS DRAWINGS
602
HULL DESIGNATING AND MARKING
6021
LABLE PLATES (MANUFACTURE)
603
DRAFT MARKS
604
LOCKS, KEYS AND TAGS
605
RODENT AND VERMIN PROOFING



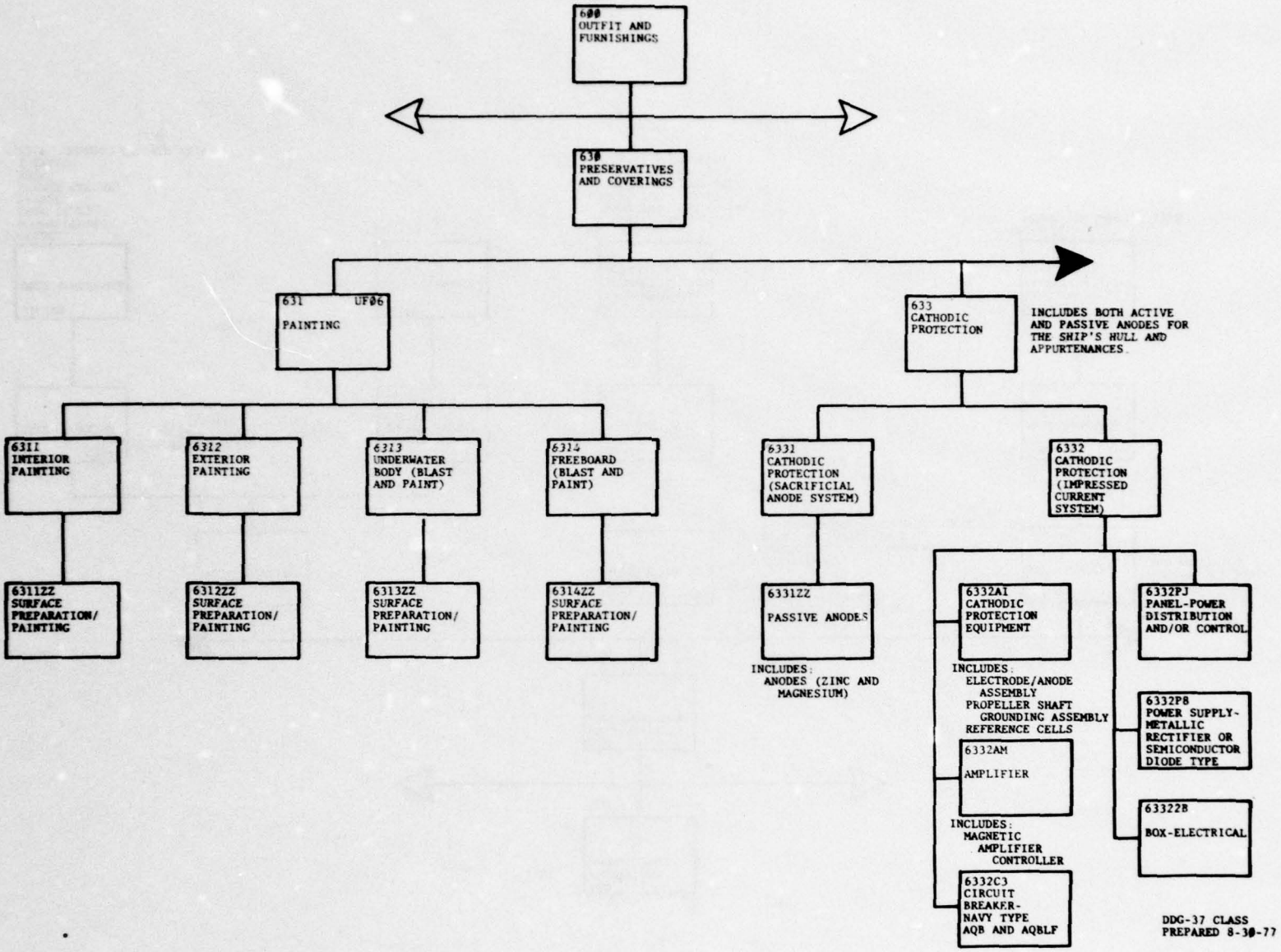
DDG-37 CLASS
PREAPRED 11-15-77

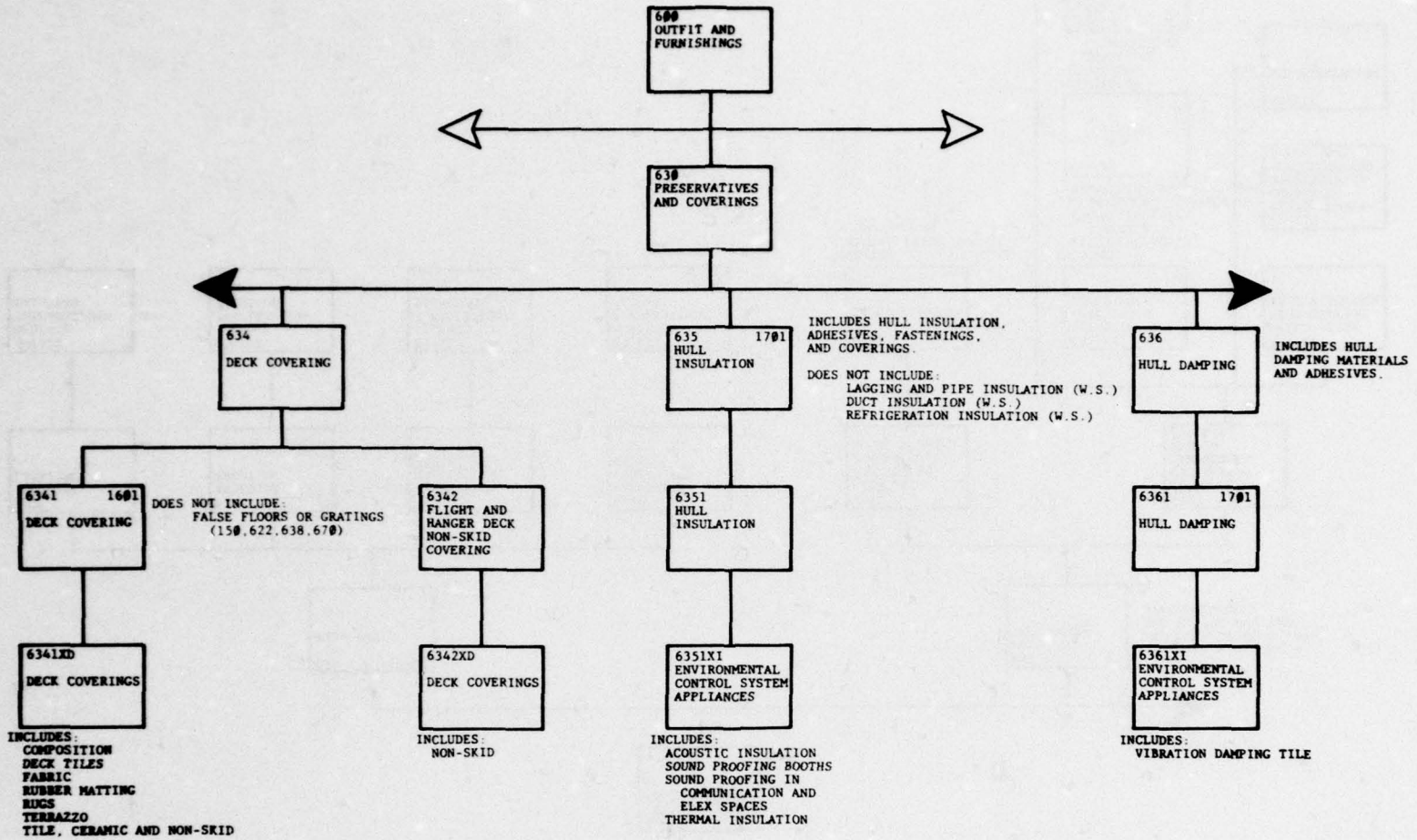


DDG-37 CLASS
PREPARED 8-30-77

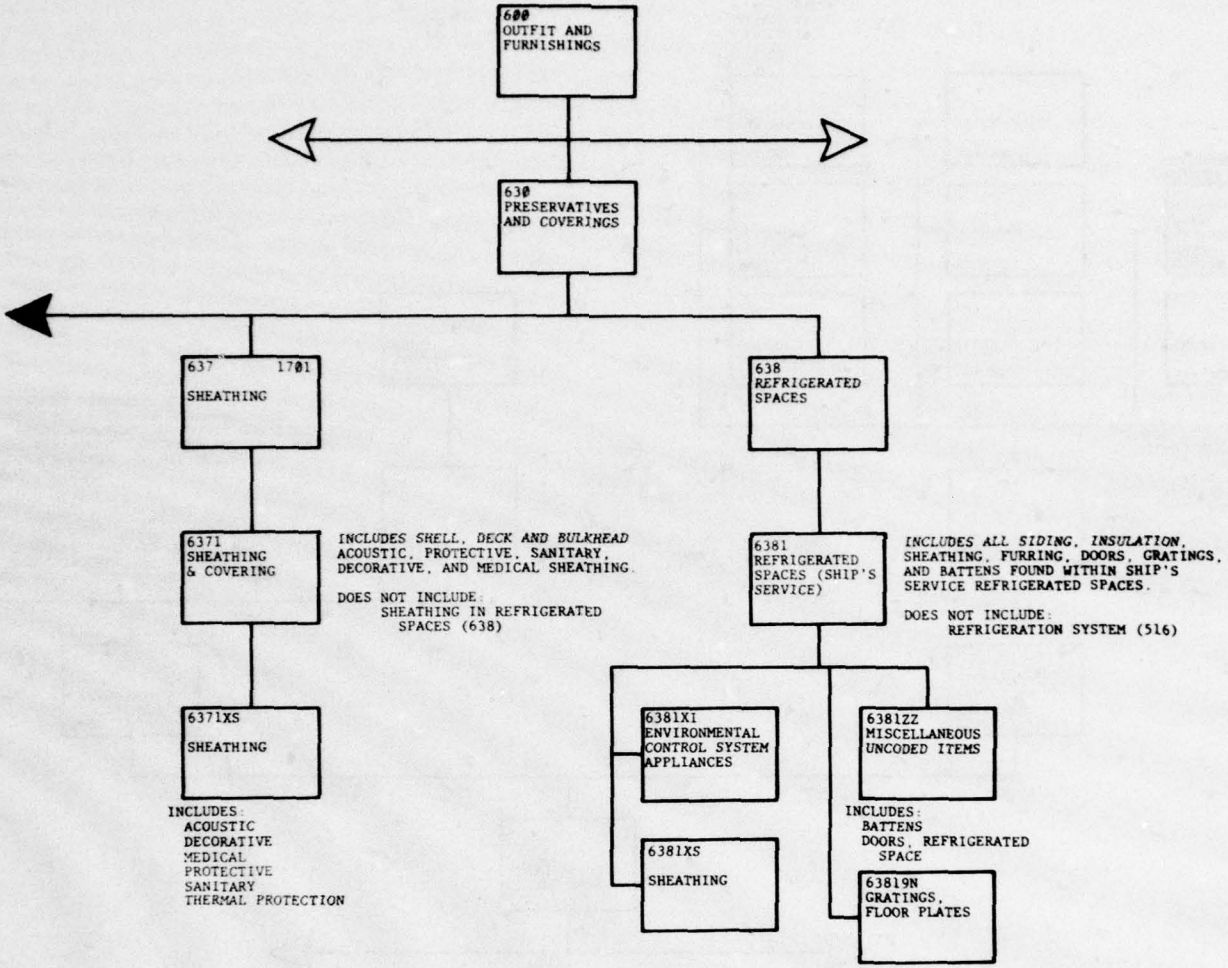


DDG-37 CLASS
PREPARED 8-30-77

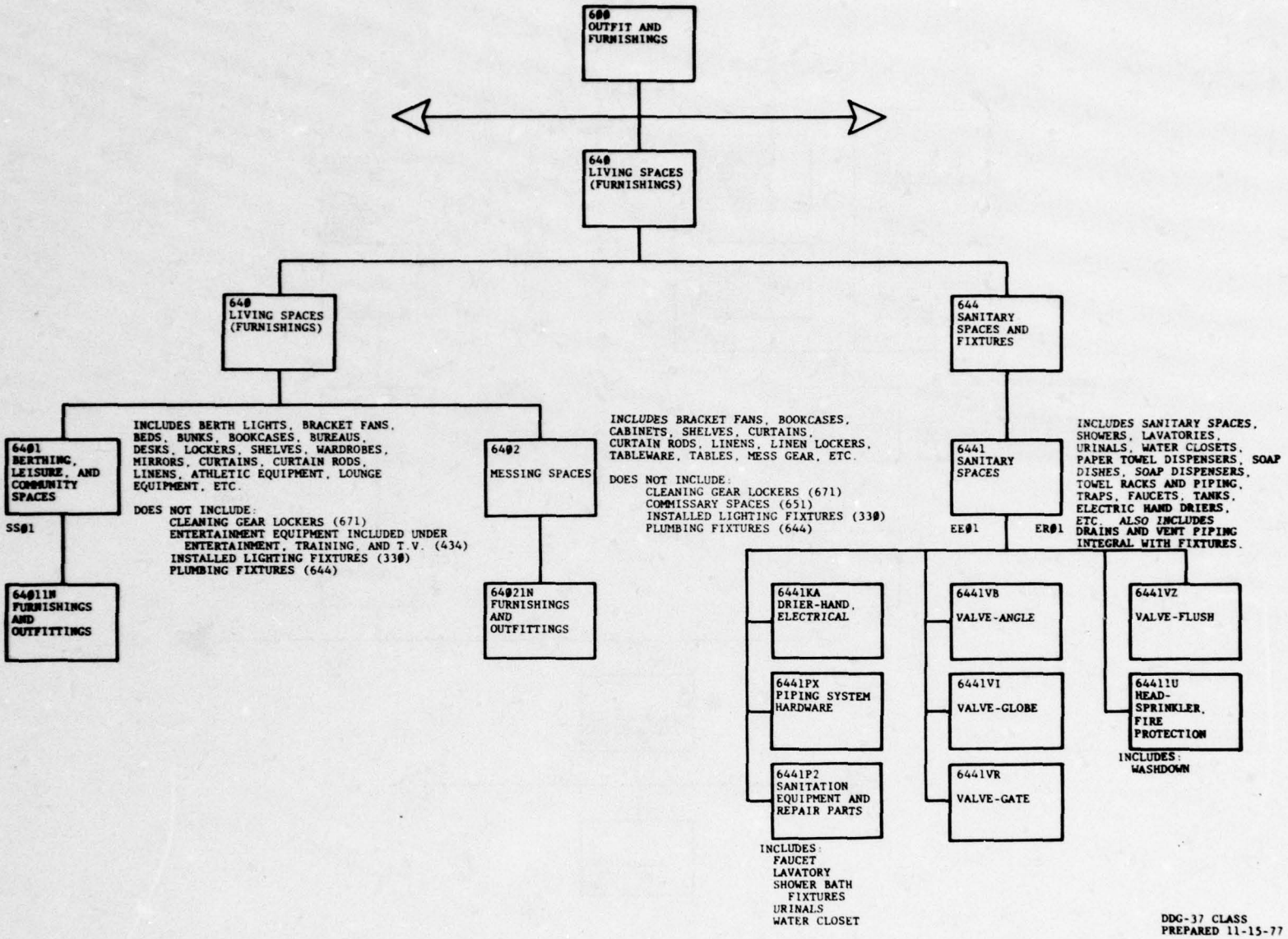

600
OUTFIT AND FURNISHINGS
630
PRESERVATIVES AND COVERINGS
631 UF06
PAINTING
633
CATHODIC PROTECTION
INCLUDES BOTH ACTIVE AND PASSIVE ANODES FOR THE SHIP'S HULL AND APPURTENANCES.
6311
INTERIOR PAINTING
6312
EXTERIOR PAINTING
6313
UNDERWATER BODY (BLAST AND PAINT)
6314
FREEBOARD (BLAST AND PAINT)
6331
CATHODIC PROTECTION (SACRIFICIAL ANODE SYSTEM)
6332
CATHODIC PROTECTION (IMPRESSED CURRENT SYSTEM)
6311ZZ
SURFACE PREPARATION/ PAINTING
6312ZZ
SURFACE PREPARATION/ PAINTING
6313ZZ
SURFACE PREPARATION/ PAINTING
6314ZZ
SURFACE PREPARATION/ PAINTING
6331ZZ
PASSIVE ANODES
INCLUDES: ANODES (ZINC AND MAGNESIUM)
6332A1
CATHODIC PROTECTION EQUIPMENT
INCLUDES: ELECTRODE/ANODE ASSEMBLY PROPELLER SHAFT GROUNDING ASSEMBLY REFERENCE CELLS
6332AM
AMPLIFIER
INCLUDES: MAGNETIC AMPLIFIER CONTROLLER
6332C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
6332PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
6332P8
POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
63322B
BOX-ELECTRICAL
DDG-37 CLASS
PREPARED 8-30-77



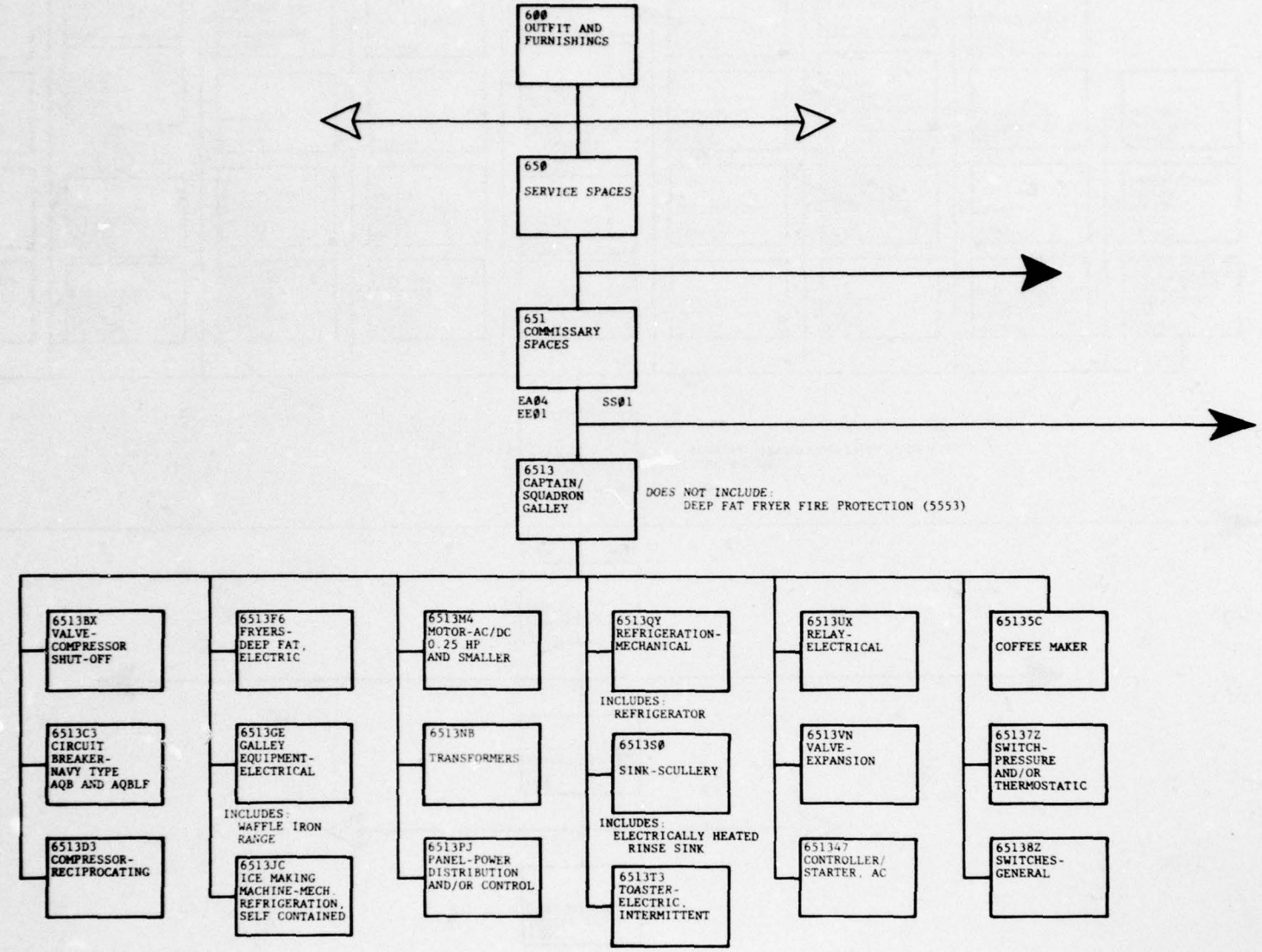
DDG-37 CLASS
PREPARED 8-30-77



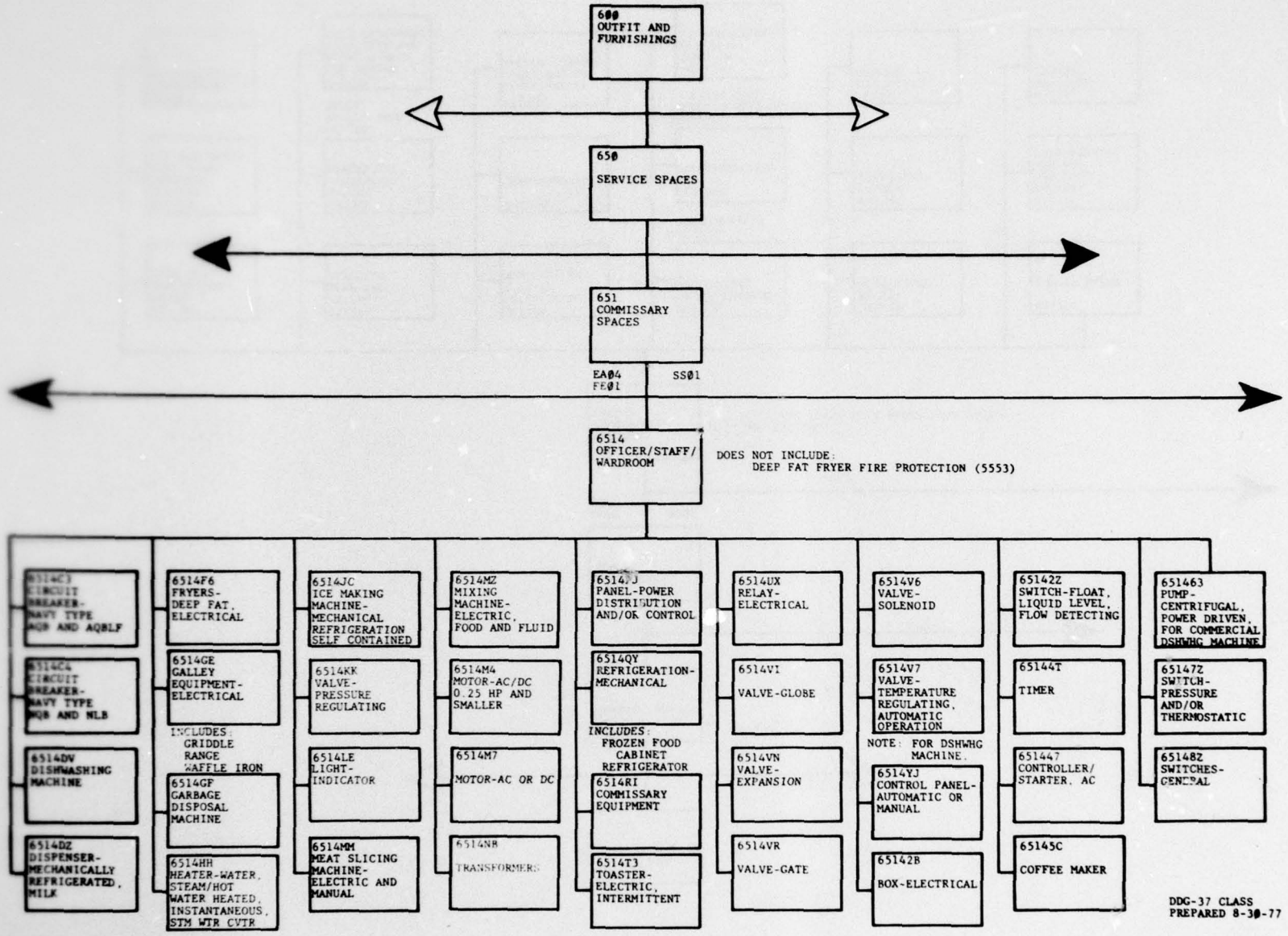
DDG-37 CLASS
PREPARED 8-30-77

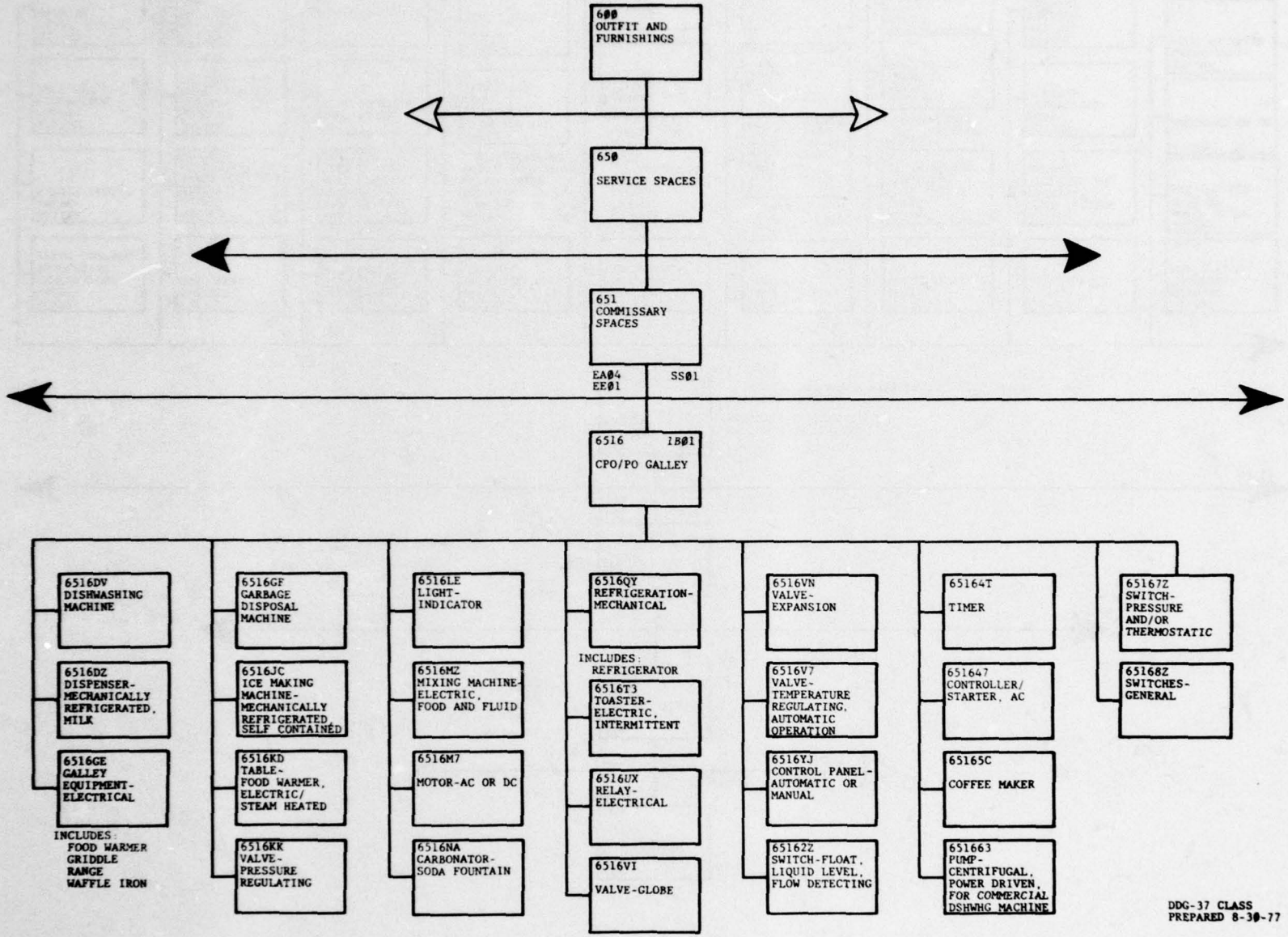


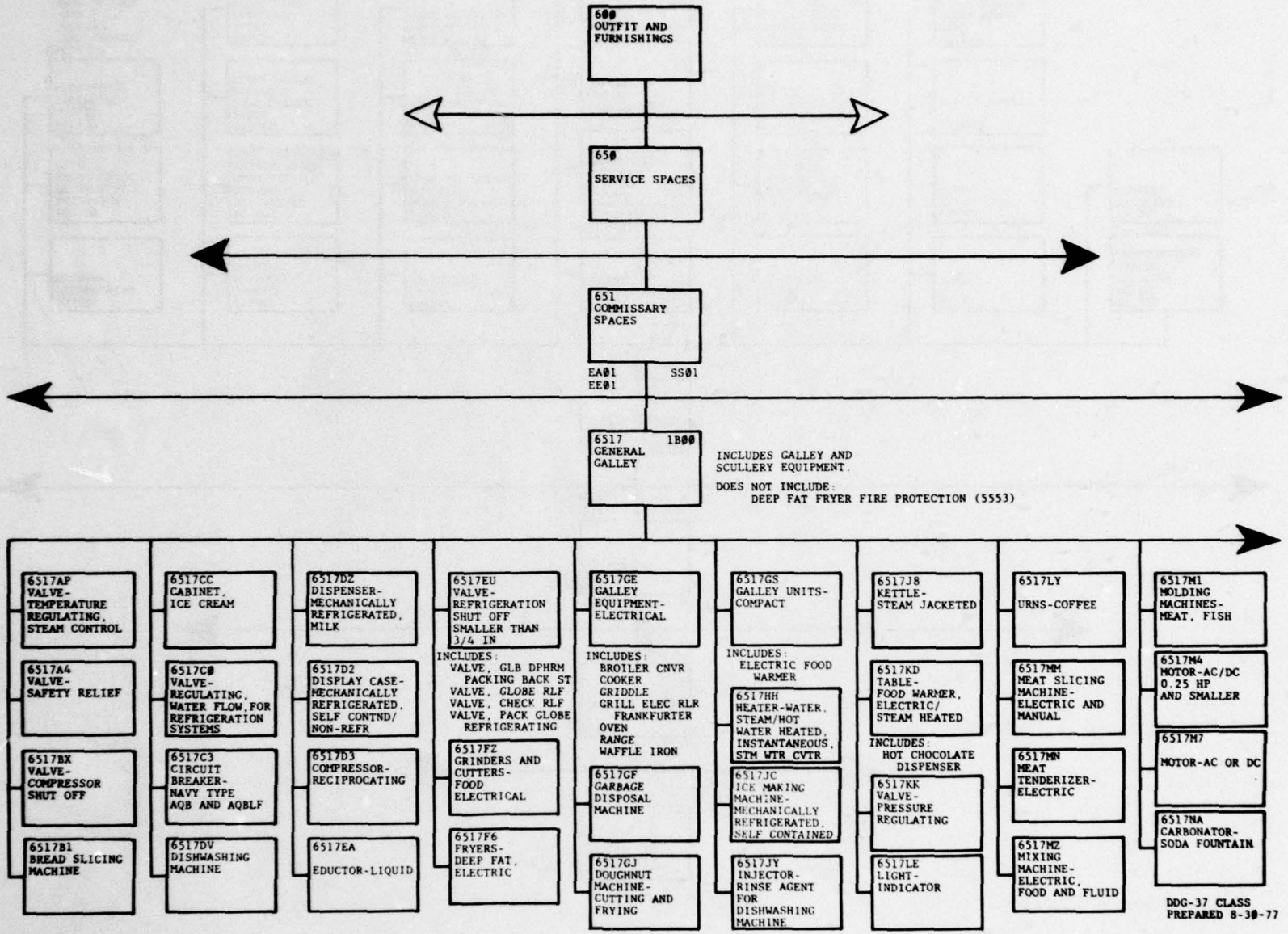
DDG-37 CLASS
PREPARED 11-15-77

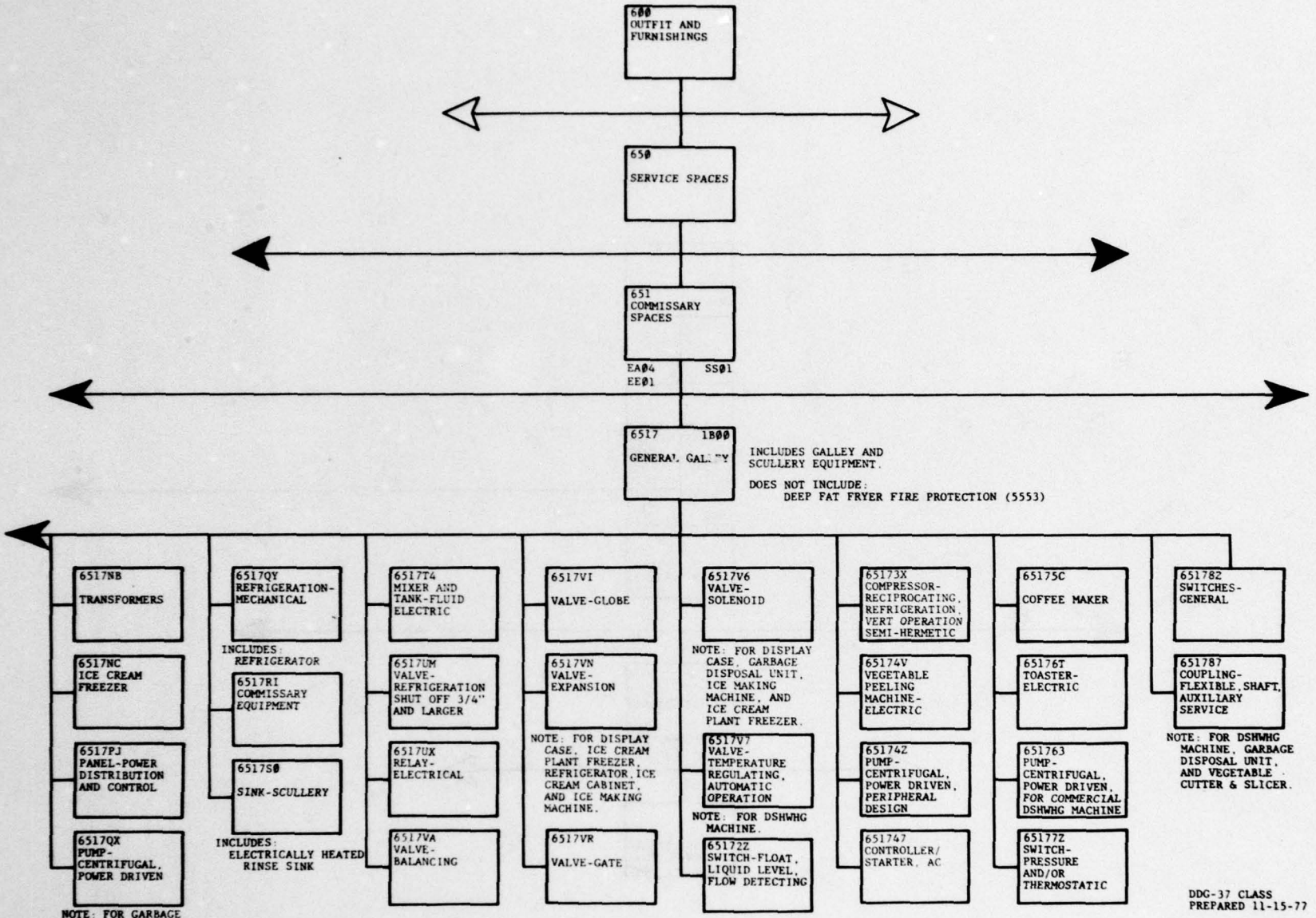


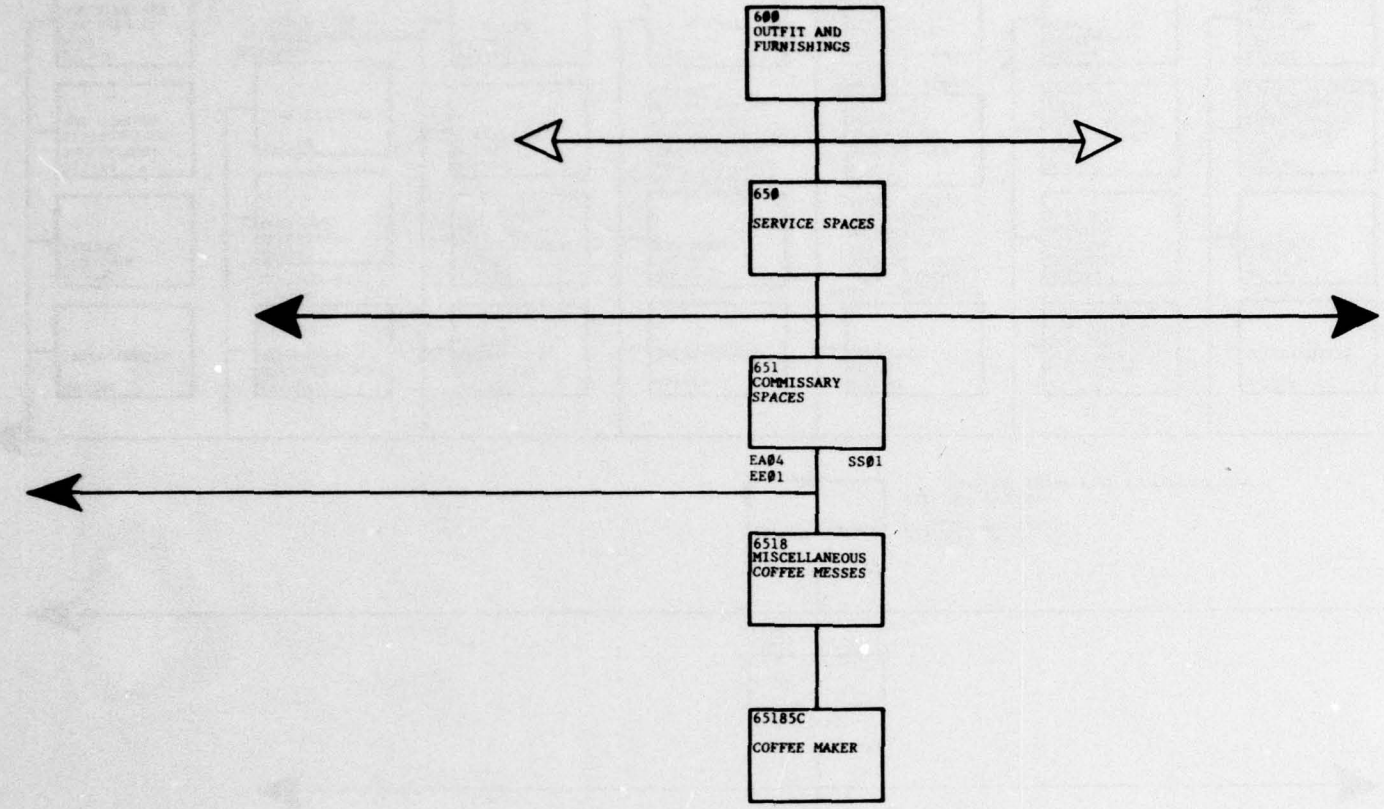
DDG-37 CLASS
PREPARED 11-15-77


600
OUTFIT AND FURNISHINGS
650
SERVICE SPACES
651
COMMISSARY SPACES
EA04
FE01
SS01
6514
OFFICER/STAFF/ WARDROOM
DOES NOT INCLUDE:
DEEP FAT FRYER FIRE PROTECTION (5553)
6514C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
6514C4
CIRCUIT BREAKER-NAVY TYPE MQB AND NLB
6514DV
DISHWASHING MACHINE
6514DZ
DISPENSER-MECHANICALLY REFRIGERATED, MILK
6514F6
FRYERS-DEEP FAT, ELECTRICAL
6514GE
GALLEY EQUIPMENT-ELECTRICAL
INCLUDES:
GRIDDLE
RANGE
WAFFLE IRON
6514GF
GARBAGE DISPOSAL MACHINE
6514HH
HEATER-WATER, STEAM/HOT WATER HEATED, INSTANTANEOUS, STM WTR CVTR
6514JC
ICE MAKING MACHINE-MECHANICAL REFRIGERATION SELF CONTAINED
6514KK
VALVE-PRESSURE REGULATING
6514LE
LIGHT-INDICATOR
6514MM
MEAT SLICING MACHINE-ELECTRIC AND MANUAL
6514MZ
MIXING MACHINE-ELECTRIC, FOOD AND FLUID
6514M4
MOTOR-AC/DC 0.25 HP AND SMALLER
6514M7
MOTOR-AC OR DC
6514NB
TRANSFORMERS
6514PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
6514QY
REFRIGERATION-MECHANICAL
INCLUDES:
FROZEN FOOD CABINET REFRIGERATOR
6514RI
COMMISSARY EQUIPMENT
6514T3
TOASTER-ELECTRIC, INTERMITTENT
6514UX
RELAY-ELECTRICAL
6514V1
VALVE-GLOBE
6514VN
VALVE-EXPANSION
6514VR
VALVE-GATE
6514V6
VALVE-SOLENOID
6514V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
NOTE: FOR DSHWHG MACHINE.
6514YJ
CONTROL PANEL-AUTOMATIC OR MANUAL
65142B
BOX-ELECTRICAL
65142Z
SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
65144T
TIMER
65144Y
CONTROLLER/ STARTER, AC
65145C
COFFEE MAKER
651463
PUMP-CENTRIFUGAL, POWER DRIVEN, FOR COMMERCIAL DSHWHG MACHINE
65147Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
65148Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 8-30-77

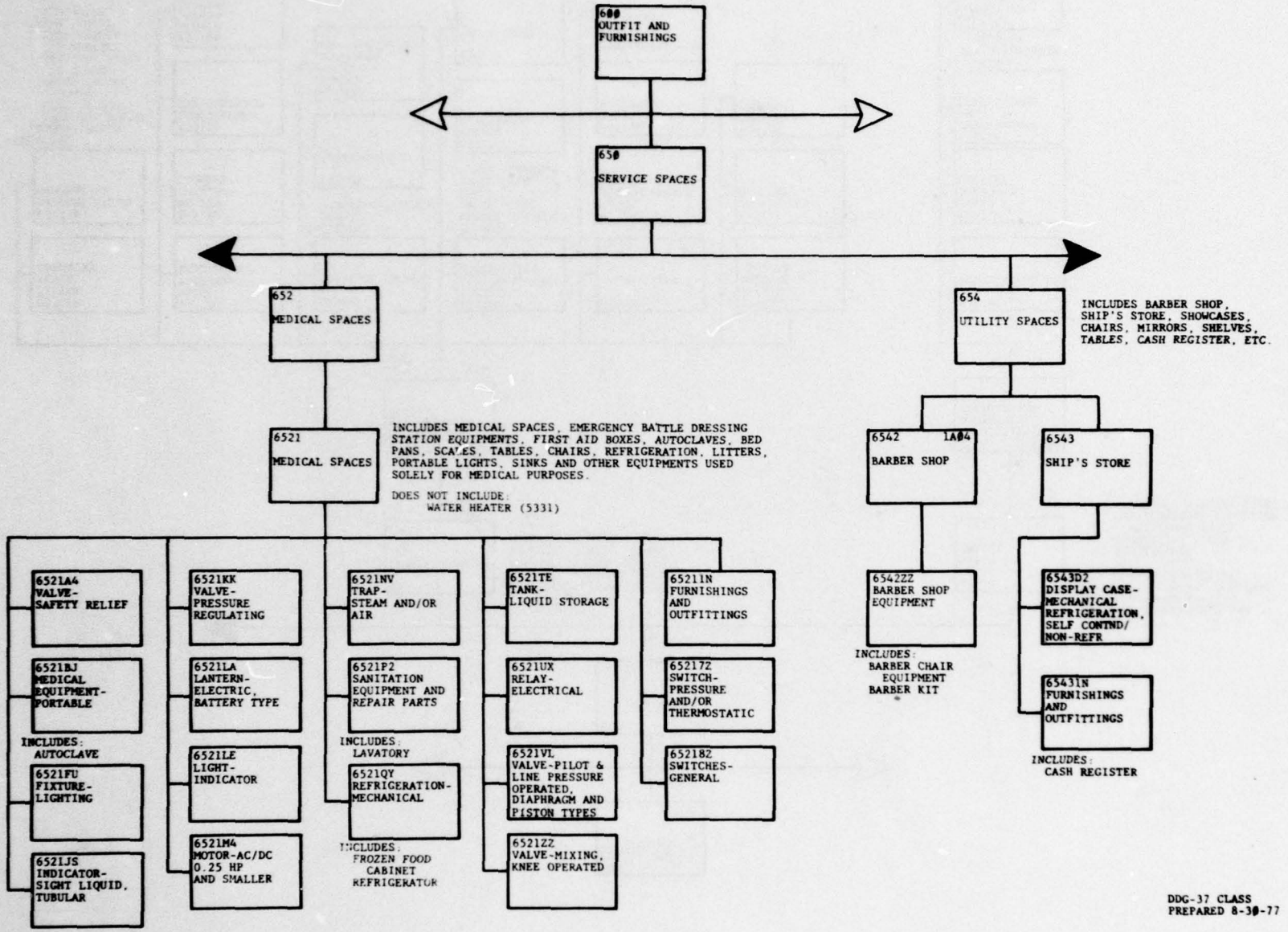

600
OUTFIT AND FURNISHINGS
650
SERVICE SPACES
651
COMMISSARY SPACES
EA04
EE01
SS01
6516
1B01
CPO/PO GALLEY
6516DV
DISHWASHING MACHINE
6516DZ
DISPENSER-MECHANICALLY REFRIGERATED, MILK
6516GE
GALLEY EQUIPMENT-ELECTRICAL
INCLUDES:
FOOD WARMER
GRIDDLE
RANGE
WAFFLE IRON
6516GF
GARBAGE DISPOSAL MACHINE
6516JC
ICE MAKING MACHINE-MECHANICALLY REFRIGERATED SELF CONTAINED
6516KD
TABLE-FOOD WARMER, ELECTRIC/STEAM HEATED
6516KK
VALVE-PRESSURE REGULATING
6516LE
LIGHT-INDICATOR
6516MZ
MIXING MACHINE-ELECTRIC, FOOD AND FLUID
6516M7
MOTOR-AC OR DC
6516NA
CARBONATOR-SODA FOUNTAIN
6516QY
REFRIGERATION-MECHANICAL
INCLUDES:
REFRIGERATOR
6516T3
TOASTER-ELECTRIC, INTERMITTENT
6516UX
RELAY-ELECTRICAL
6516VI
VALVE-GLOBE
6516VN
VALVE-EXPANSION
6516V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
6516YJ
CONTROL PANEL-AUTOMATIC OR MANUAL
65162Z
SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
65164T
TIMER
651647
CONTROLLER/STARTER, AC
65165C
COFFEE MAKER
651663
PUMP-CENTRIFUGAL, POWER DRIVEN, FOR COMMERCIAL DSHWHG MACHINE
65167Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
65168Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 8-30-77

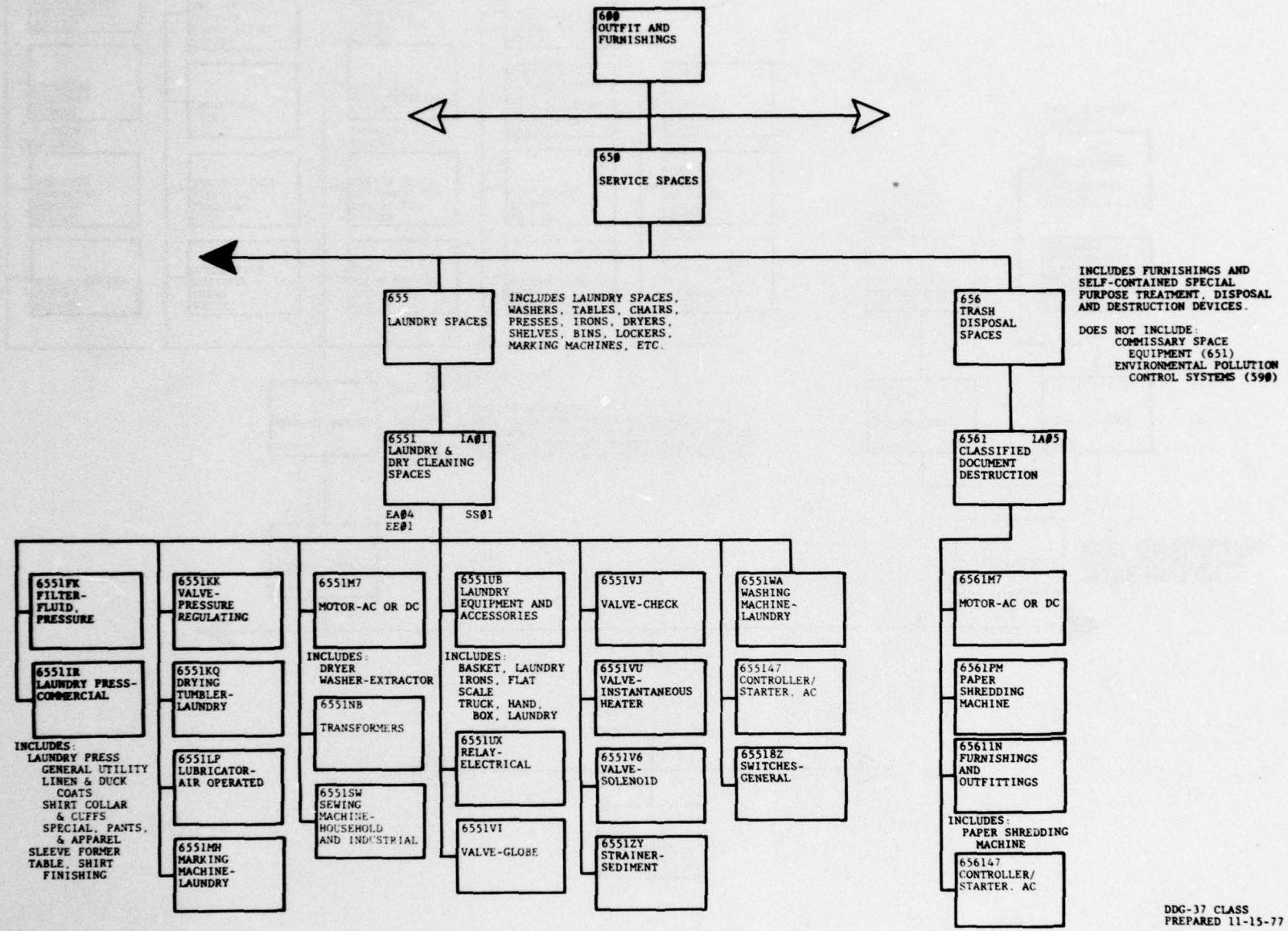

600
OUTFIT AND FURNISHINGS
650
SERVICE SPACES
651
COMMISSARY SPACES
EA01
EE01
SS01
6517 1B00
GENERAL GALLEY
INCLUDES GALLEY AND SCULLERY EQUIPMENT.
DOES NOT INCLUDE:
DEEP FAT FRYER FIRE PROTECTION (5553)
6517AP VALVE-TEMPERATURE REGULATING, STEAM CONTROL
6517A4 VALVE-SAFETY RELIEF
6517BX VALVE-COMPRESSOR SHUT OFF
6517B1 BREAD SLICING MACHINE
6517CC CABINET, ICE CREAM
6517C0 VALVE-REGULATING, WATER FLOW, FOR REFRIGERATION SYSTEMS
6517C3 CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
6517DV DISHWASHING MACHINE
6517DZ DISPENSER-MECHANICALLY REFRIGERATED, MILK
6517D2 DISPLAY CASE-MECHANICALLY REFRIGERATED, SELF CONTND/NON-REFR
6517D3 COMPRESSOR-RECIPROCATING
6517EA EDUCTOR-LIQUID
6517EU VALVE-REFRIGERATION SHUT OFF SMALLER THAN 3/4 IN
INCLUDES:
VALVE, GLB DPHRM PACKING BACK ST
VALVE, GLOBE RLF
VALVE, CHECK RLF
VALVE, PACK GLOBE REFRIGERATING
6517FZ GRINDERS AND CUTTERS-FOOD ELECTRICAL
6517F6 FRYERS-DEEP FAT, ELECTRIC
6517GE GALLEY EQUIPMENT-ELECTRICAL
INCLUDES:
BROILER CNVR
COOKER
GRIDDLE
GRILL ELEC RLR
FRANKFURTER
OVEN
RANGE
WAFFLE IRON
6517GF GARBAGE DISPOSAL MACHINE
6517GJ DOUGHNUT MACHINE-CUTTING AND FRYING
6517GS GALLEY UNITS-COMPACT
INCLUDES:
ELECTRIC FOOD WARMER
6517HH HEATER-WATER, STEAM/HOT WATER HEATED, INSTANTANEOUS, STM WTR CVTR
6517JC ICE MAKING MACHINE-MECHANICALLY REFRIGERATED, SELF CONTAINED
6517JY INJECTOR-RINSE AGENT FOR DISHWASHING MACHINE
6517J8 KETTLE-STEAM JACKETED
6517KD TABLE-FOOD WARMER, ELECTRIC/STEAM HEATED
INCLUDES:
HOT CHOCOLATE DISPENSER
6517KK VALVE-PRESSURE REGULATING
6517LE LIGHT-INDICATOR
6517LY URNS-COFFEE
6517MM MEAT SLICING MACHINE-ELECTRIC AND MANUAL
6517MN MEAT TENDERIZER-ELECTRIC
6517MZ MIXING MACHINE-ELECTRIC, FOOD AND FLUID
6517M1 MOLDING MACHINES-MEAT, FISH
6517M4 MOTOR-AC/DC 0.25 HP AND SMALLER
6517M7 MOTOR-AC OR DC
6517NA CARBONATOR-SODA FOUNTAIN
DDG-37 CLASS
PREPARED 8-30-77


600
OUTFIT AND FURNISHINGS
650
SERVICE SPACES
651
COMMISSARY SPACES
EA04
EE01
SS01
6517 1B00
GENERAL GALLEY
INCLUDES GALLEY AND SCULLERY EQUIPMENT.
DOES NOT INCLUDE:
DEEP FAT FRYER FIRE PROTECTION (5553)
6517NB
TRANSFORMERS
6517NC
ICE CREAM FREEZER
6517PJ
PANEL-POWER DISTRIBUTION AND CONTROL
6517QX
PUMP-CENTRIFUGAL, POWER DRIVEN
NOTE: FOR GARBAGE DISPOSAL UNIT.
6517QY
REFRIGERATION-MECHANICAL
INCLUDES:
REFRIGERATOR
6517RI
COMMISSARY EQUIPMENT
6517S0
SINK-SCULLERY
INCLUDES:
ELECTRICALLY HEATED RINSE SINK
6517T4
MIXER AND TANK-FLUID ELECTRIC
6517UM
VALVE-REFRIGERATION SHUT OFF 3/4" AND LARGER
6517UX
RELAY-ELECTRICAL
6517VA
VALVE-BALANCING
6517VI
VALVE-GLOBE
6517VN
VALVE-EXPANSION
NOTE: FOR DISPLAY CASE, ICE CREAM PLANT FREEZER, REFRIGERATOR, ICE CREAM CABINET, AND ICE MAKING MACHINE.
6517VR
VALVE-GATE
6517V6
VALVE-SOLENOID
NOTE: FOR DISPLAY CASE, GARBAGE DISPOSAL UNIT, ICE MAKING MACHINE, AND ICE CREAM PLANT FREEZER.
6517V7
VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION
NOTE: FOR DSHWHG MACHINE.
65172Z
SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING
65173X
COMPRESSOR-RECIPROCATING, REFRIGERATION, VERT OPERATION SEMI-HERMETIC
65174V
VEGETABLE PEELING MACHINE-ELECTRIC
65174Z
PUMP-CENTRIFUGAL, POWER DRIVEN, PERIPHERAL DESIGN
651747
CONTROLLER/STARTER, AC
65175C
COFFEE MAKER
65176T
TOASTER-ELECTRIC
651763
PUMP-CENTRIFUGAL, POWER DRIVEN, FOR COMMERCIAL DSHWHG MACHINE
65177Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
651782
SWITCHES-GENERAL
651787
COUPLING-FLEXIBLE, SHAFT, AUXILLARY SERVICE
NOTE: FOR DSHWHG MACHINE, GARBAGE DISPOSAL UNIT, AND VEGETABLE CUTTER & SLICER.
DDG-37 CLASS
PREPARED 11-15-77

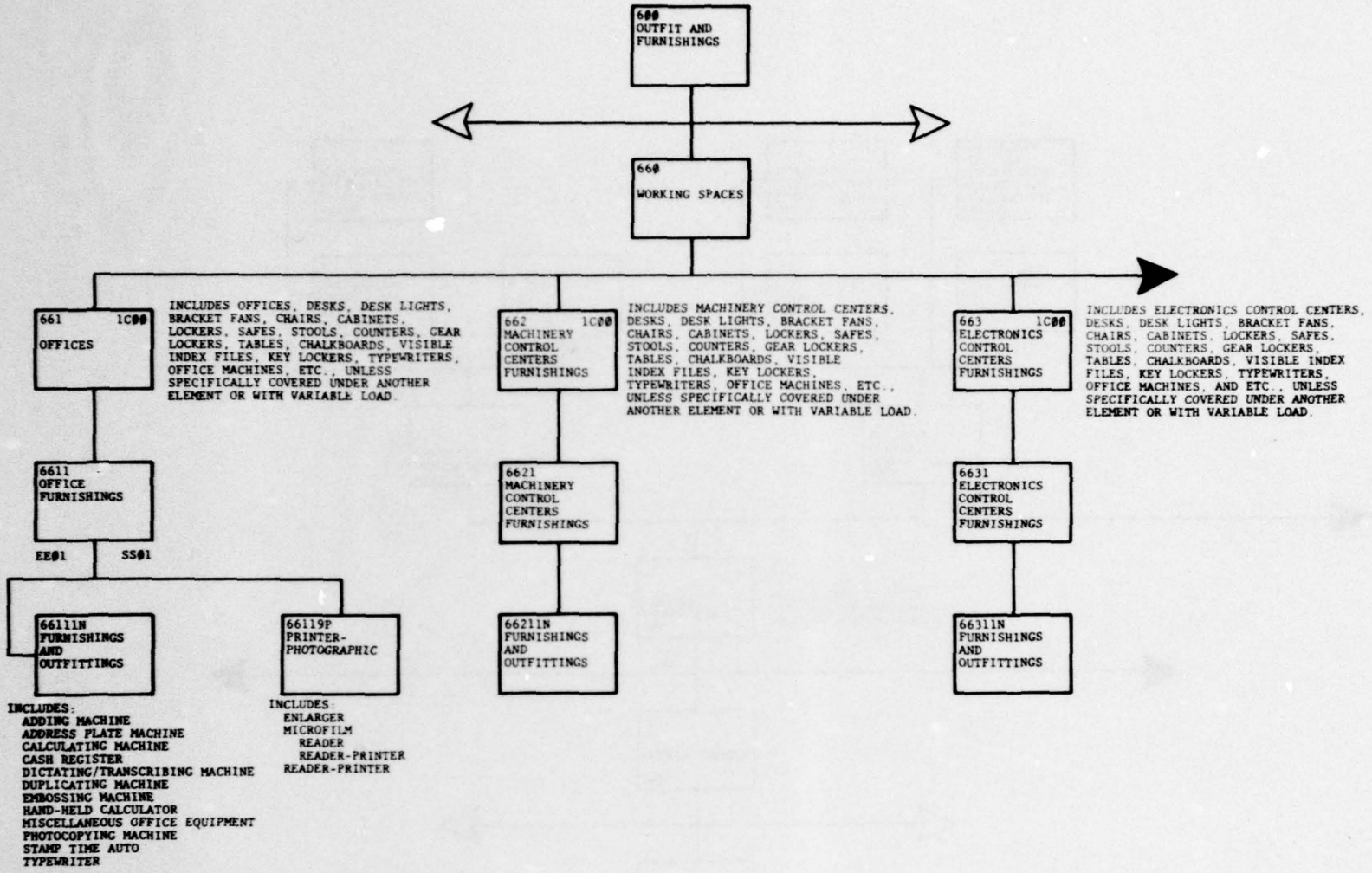


DDG-37 CLASS
PREPARED 8-30-77


600
OUTFIT AND FURNISHINGS
650
SERVICE SPACES
652
MEDICAL SPACES
654
UTILITY SPACES
INCLUDES BARBER SHOP, SHIP'S STORE, SHOWCASES, CHAIRS, MIRRORS, SHELVES, TABLES, CASH REGISTER, ETC.
6521
MEDICAL SPACES
INCLUDES MEDICAL SPACES, EMERGENCY BATTLE DRESSING STATION EQUIPMENTS, FIRST AID BOXES, AUTOCLAVES, BED PANS, SCALES, TABLES, CHAIRS, REFRIGERATION, LITTERS, PORTABLE LIGHTS, SINKS AND OTHER EQUIPMENTS USED SOLELY FOR MEDICAL PURPOSES.
DOES NOT INCLUDE:
WATER HEATER (5331)
6542 1A04
BARBER SHOP
6543
SHIP'S STORE
6521A4
VALVE-SAFETY RELIEF
6521BJ
MEDICAL EQUIPMENT-PORTABLE
INCLUDES:
AUTOCLAVE
6521FU
FIXTURE-LIGHTING
6521JS
INDICATOR-SIGHT LIQUID, TUBULAR
6521KK
VALVE-PRESSURE REGULATING
6521LA
LANTERN-ELECTRIC, BATTERY TYPE
6521LE
LIGHT-INDICATOR
6521M4
MOTOR-AC/DC 0.25 HP AND SMALLER
6521NV
TRAP-STEAM AND/OR AIR
6521P2
SANITATION EQUIPMENT AND REPAIR PARTS
INCLUDES:
LAVATORY
6521QY
REFRIGERATION-MECHANICAL
INCLUDES:
FROZEN FOOD CABINET REFRIGERATOR
6521TE
TANK-LIQUID STORAGE
6521UX
RELAY-ELECTRICAL
6521VL
VALVE-PILOT & LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES
6521ZZ
VALVE-MIXING, KNEE OPERATED
65211N
FURNISHINGS AND OUTFITTINGS
65217Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
652182
SWITCHES-GENERAL
6542ZZ
BARBER SHOP EQUIPMENT
INCLUDES:
BARBER CHAIR EQUIPMENT
BARBER KIT
6543D2
DISPLAY CASE-MECHANICAL REFRIGERATION, SELF CONTND/NON-REFR
65431N
FURNISHINGS AND OUTFITTINGS
INCLUDES:
CASH REGISTER
DDG-37 CLASS
PREPARED 8-30-77



DDG-37 CLASS
PREPARED 11-15-77



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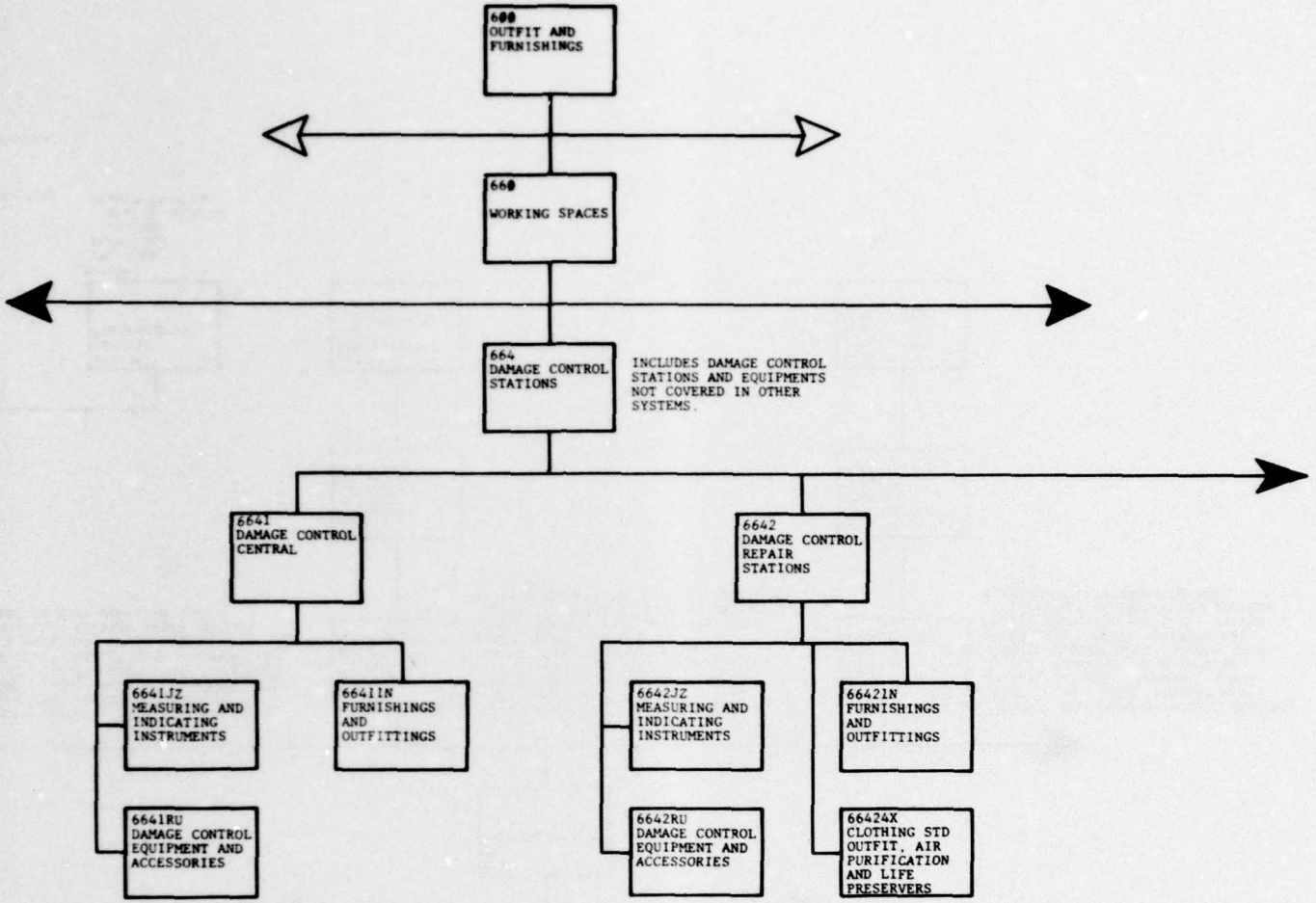
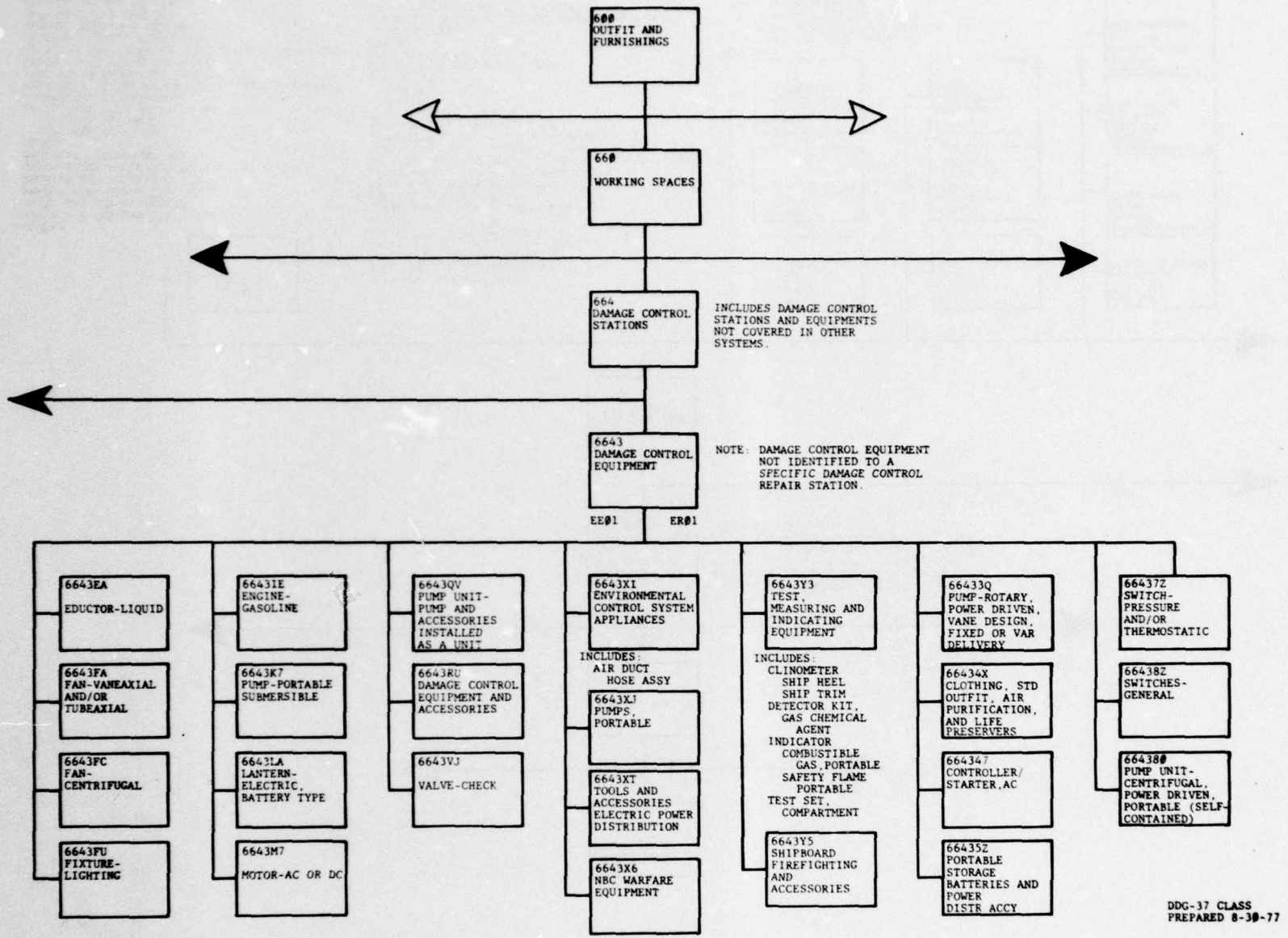
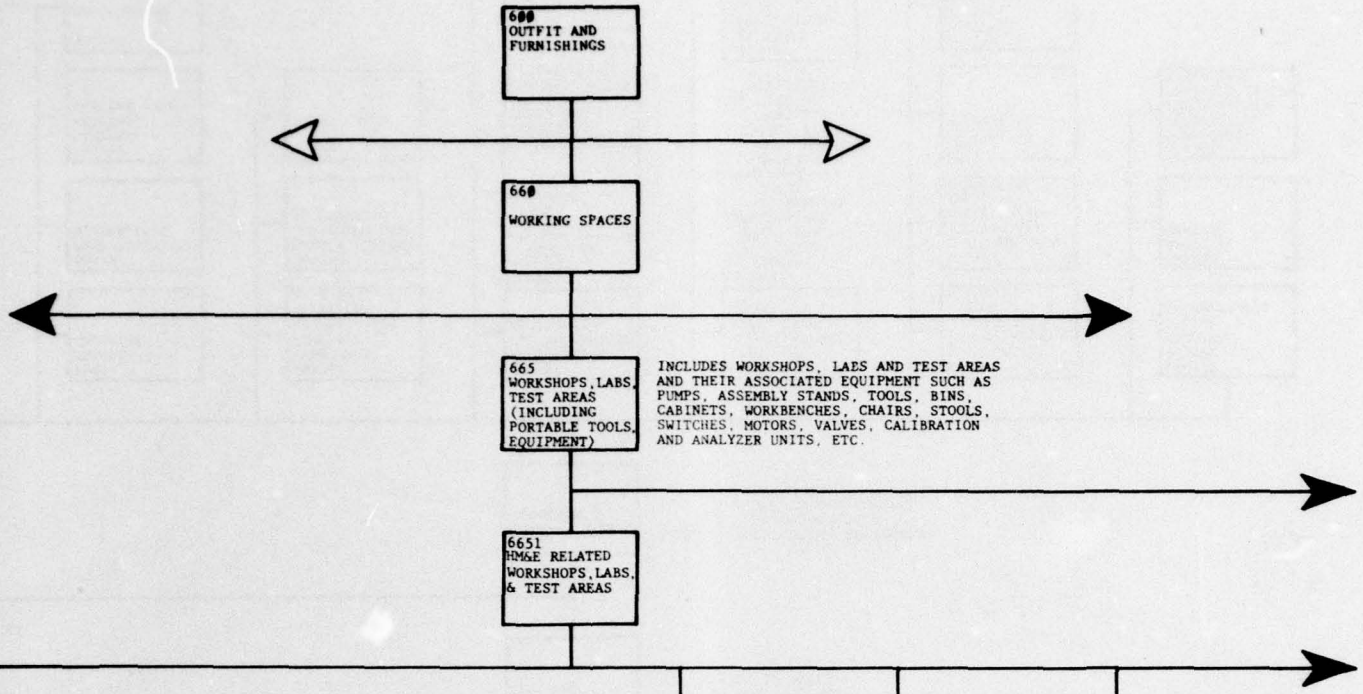
PREPARED 11-15-77

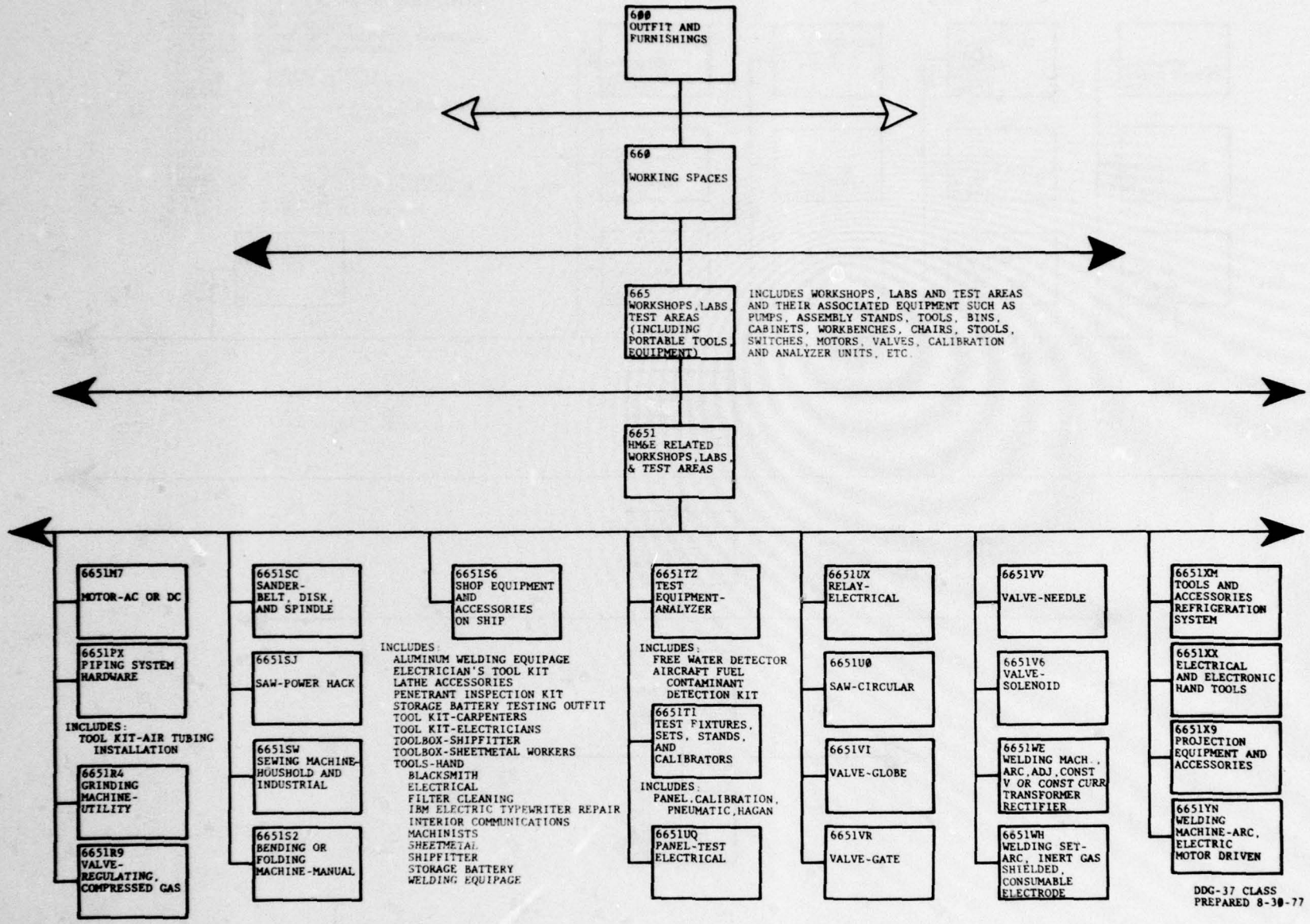


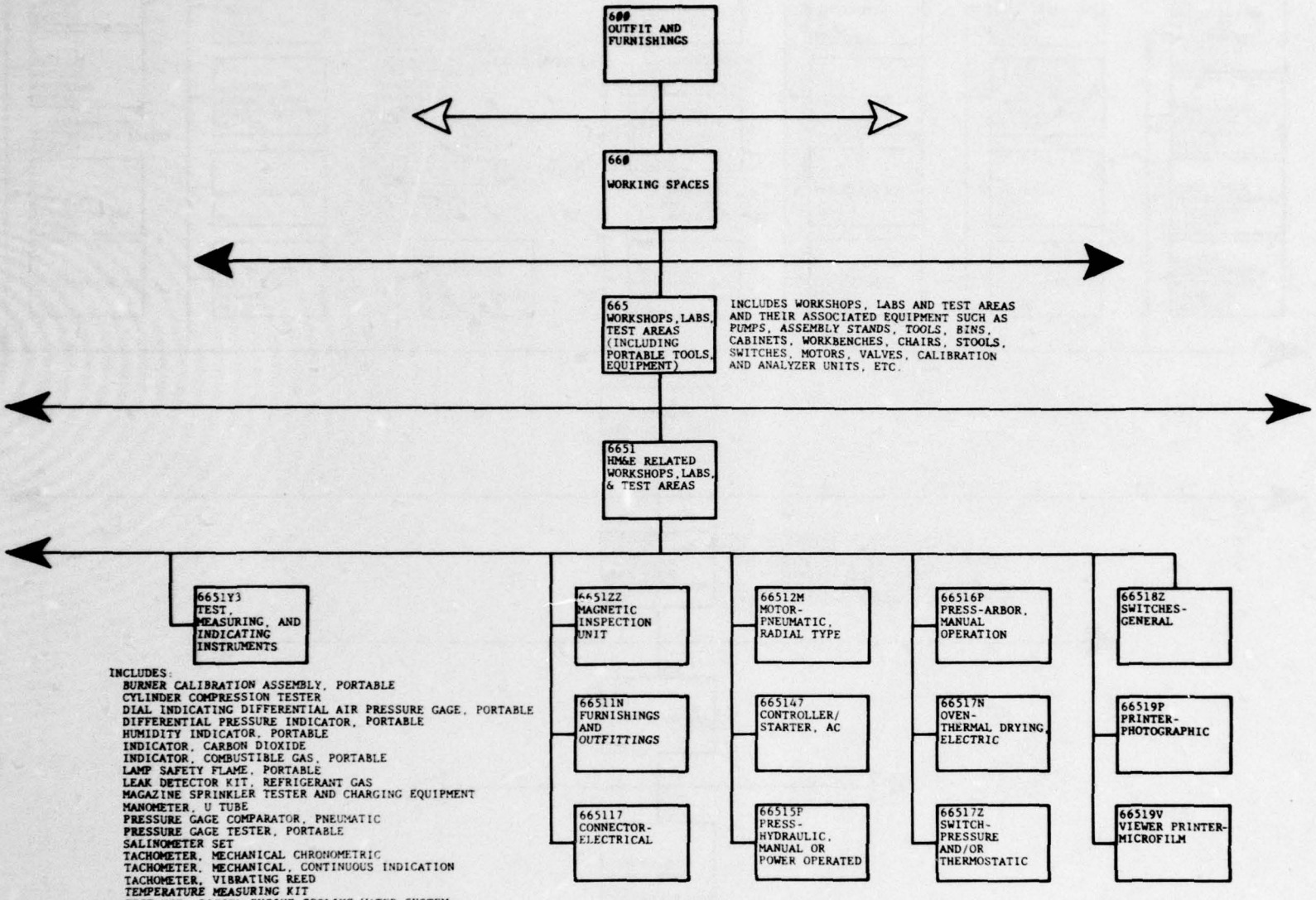
DDG-37 CLASS
PREPARED 8-30-77


600
OUTFIT AND FURNISHINGS
660
WORKING SPACES
664
DAMAGE CONTROL STATIONS
INCLUDES DAMAGE CONTROL STATIONS AND EQUIPMENTS NOT COVERED IN OTHER SYSTEMS.
6643
DAMAGE CONTROL EQUIPMENT
NOTE: DAMAGE CONTROL EQUIPMENT NOT IDENTIFIED TO A SPECIFIC DAMAGE CONTROL REPAIR STATION.
EE01
ER01
6643EA
EDUCTOR-LIQUID
6643FA
FAN-VANEAXIAL AND/OR TUBEAXIAL
6643FC
FAN-CENTRIFUGAL
6643FU
FIXTURE-LIGHTING
66431E
ENGINE-GASOLINE
6643K7
PUMP-PORTABLE SUBMERSIBLE
6643LA
LANTERN-ELECTRIC, BATTERY TYPE
6643M7
MOTOR-AC OR DC
6643QV
PUMP UNIT-PUMP AND ACCESSORIES INSTALLED AS A UNIT
6643RU
DAMAGE CONTROL EQUIPMENT AND ACCESSORIES
6643VJ
VALVE-CHECK
6643XI
ENVIRONMENTAL CONTROL SYSTEM APPLIANCES
INCLUDES:
AIR DUCT
HOSE ASSY
6643XJ
PUMPS, PORTABLE
6643XT
TOOLS AND ACCESSORIES ELECTRIC POWER DISTRIBUTION
6643X6
NBC WARFARE EQUIPMENT
6643Y3
TEST, MEASURING AND INDICATING EQUIPMENT
INCLUDES:
CLINOMETER
SHIP HEEL
SHIP TRIM
DETECTOR KIT, GAS CHEMICAL AGENT
INDICATOR
COMBUSTIBLE GAS, PORTABLE
SAFETY FLAME PORTABLE
TEST SET, COMPARTMENT
6643Y5
SHIPBOARD FIREFIGHTING AND ACCESSORIES
66433Q
PUMP-ROTARY, POWER DRIVEN, VANE DESIGN, FIXED OR VAR DELIVERY
66434X
CLOTHING, STD OUTFIT, AIR PURIFICATION, AND LIFE PRESERVERS
664347
CONTROLLER/STARTER, AC
66435Z
PORTABLE STORAGE BATTERIES AND POWER DISTR ACCY
66437Z
SWITCH-PRESSURE AND/OR THERMOSTATIC
66438Z
SWITCHES-GENERAL
664380
PUMP UNIT-CENTRIFUGAL, POWER DRIVEN, PORTABLE (SELF-CONTAINED)
DDG-37 CLASS
PREPARED 8-30-77

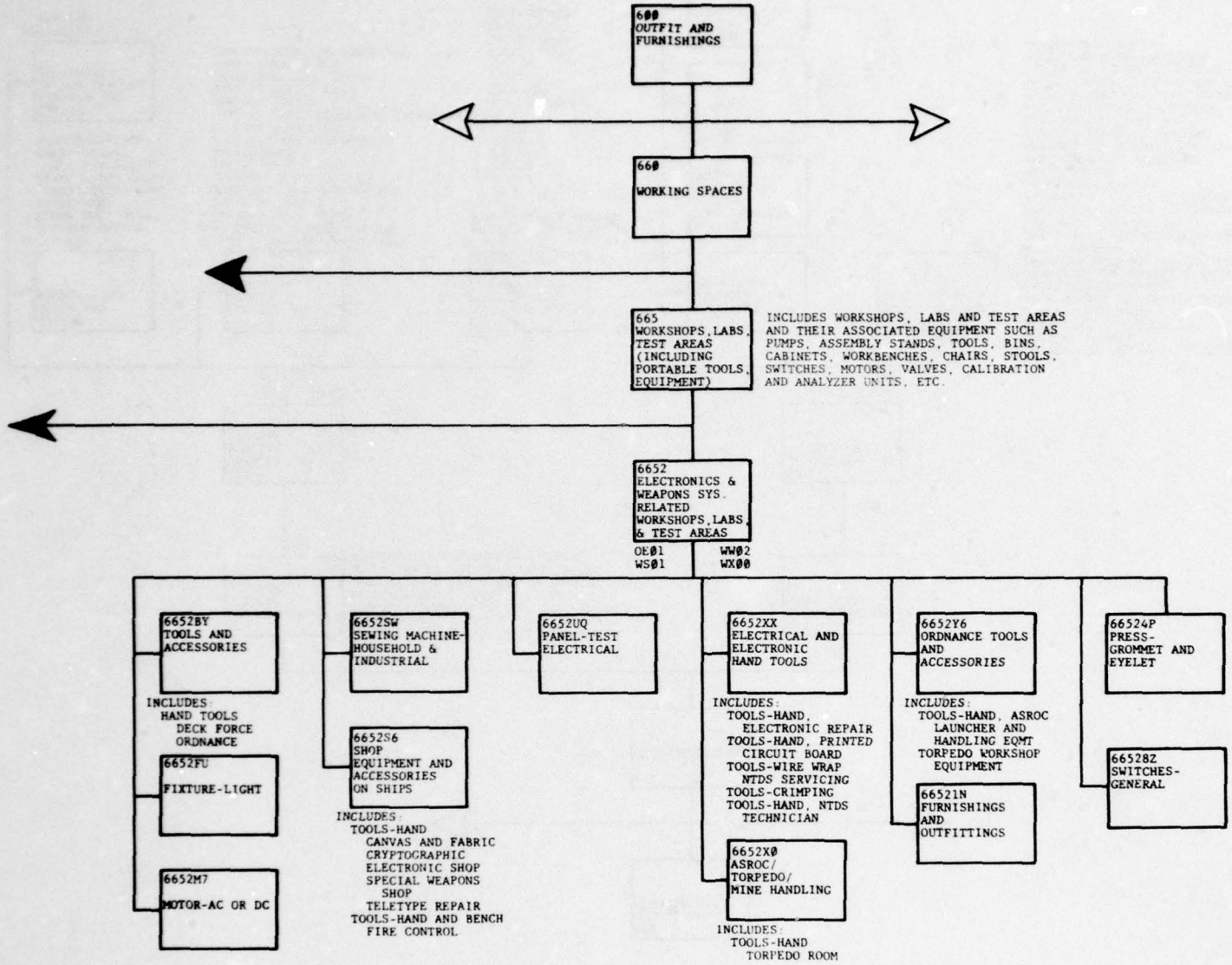


DDG-37 CLASS
PREPARED 8-30-77


600
OUTFIT AND FURNISHINGS
660
WORKING SPACES
665
WORKSHOPS, LABS, TEST AREAS (INCLUDING PORTABLE TOOLS, EQUIPMENT)
INCLUDES WORKSHOPS, LABS AND TEST AREAS AND THEIR ASSOCIATED EQUIPMENT SUCH AS PUMPS, ASSEMBLY STANDS, TOOLS, BINS, CABINETS, WORKBENCHES, CHAIRS, STOOLS, SWITCHES, MOTORS, VALVES, CALIBRATION AND ANALYZER UNITS, ETC.
6651
HM&E RELATED WORKSHOPS, LABS, & TEST AREAS
6651M7
MOTOR-AC OR DC
6651PX
PIPING SYSTEM HARDWARE
INCLUDES:
TOOL KIT-AIR TUBING INSTALLATION
6651R4
GRINDING MACHINE-UTILITY
6651R9
VALVE-REGULATING, COMPRESSED GAS
6651SC
SANDER-BELT, DISK, AND SPINDLE
6651SJ
SAW-POWER HACK
6651SW
SEWING MACHINE-HOUSHOLD AND INDUSTRIAL
6651S2
BENDING OR FOLDING MACHINE-MANUAL
6651S6
SHOP EQUIPMENT AND ACCESSORIES ON SHIP
INCLUDES:
ALUMINUM WELDING EQUIPAGE
ELECTRICIAN'S TOOL KIT
LATHE ACCESSORIES
PENETRANT INSPECTION KIT
STORAGE BATTERY TESTING OUTFIT
TOOL KIT-CARPENTERS
TOOL KIT-ELECTRICIANS
TOOLBOX-SHIPFITTER
TOOLBOX-SHEETMETAL WORKERS
TOOLS-HAND
BLACKSMITH
ELECTRICAL
FILTER CLEANING
IBM ELECTRIC TYPEWRITER REPAIR
INTERIOR COMMUNICATIONS
MACHINISTS
SHEETMETAL
SHIPFITTER
STORAGE BATTERY
WELDING EQUIPAGE
6651TZ
TEST EQUIPMENT-ANALYZER
INCLUDES:
FREE WATER DETECTOR
AIRCRAFT FUEL CONTAMINANT DETECTION KIT
6651TI
TEST FIXTURES, SETS, STANDS, AND CALIBRATORS
INCLUDES:
PANEL, CALIBRATION, PNEUMATIC, HAGAN
6651UQ
PANEL-TEST ELECTRICAL
6651UX
RELAY-ELECTRICAL
6651U0
SAW-CIRCULAR
6651VI
VALVE-GLOBE
6651VR
VALVE-GATE
6651VV
VALVE-NEEDLE
6651V6
VALVE-SOLENOID
6651WE
WELDING MACH., ARC, ADJ, CONST V OR CONST CURR TRANSFORMER RECTIFIER
6651WH
WELDING SET-ARC, INERT GAS SHIELDED, CONSUMABLE ELECTRODE
6651XM
TOOLS AND ACCESSORIES REFRIGERATION SYSTEM
6651XX
ELECTRICAL AND ELECTRONIC HAND TOOLS
6651X9
PROJECTION EQUIPMENT AND ACCESSORIES
6651YN
WELDING MACHINE-ARC, ELECTRIC MOTOR DRIVEN
DDG-37 CLASS
PREPARED 8-30-77



DDG-37 CLASS
PREPARED 8-30-77


600
OUTFIT AND FURNISHINGS
660
WORKING SPACES
665
WORKSHOPS, LABS, TEST AREAS (INCLUDING PORTABLE TOOLS, EQUIPMENT)
INCLUDES WORKSHOPS, LABS AND TEST AREAS AND THEIR ASSOCIATED EQUIPMENT SUCH AS PUMPS, ASSEMBLY STANDS, TOOLS, BINS, CABINETS, WORKBENCHES, CHAIRS, STOOLS, SWITCHES, MOTORS, VALVES, CALIBRATION AND ANALYZER UNITS, ETC.
6652
ELECTRONICS & WEAPONS SYS. RELATED WORKSHOPS, LABS, & TEST AREAS
OE01
WS01
WW02
WX00
6652BY
TOOLS AND ACCESSORIES
INCLUDES:
HAND TOOLS
DECK FORCE ORDNANCE
6652FU
FIXTURE-LIGHT
6652M7
MOTOR-AC OR DC
6652SW
SEWING MACHINE-HOUSEHOLD & INDUSTRIAL
6652S6
SHOP EQUIPMENT AND ACCESSORIES ON SHIPS
INCLUDES:
TOOLS-HAND
CANVAS AND FABRIC
CRYPTOGRAPHIC
ELECTRONIC SHOP
SPECIAL WEAPONS SHOP
TELETYPE REPAIR
TOOLS-HAND AND BENCH
FIRE CONTROL
6652UQ
PANEL-TEST ELECTRICAL
6652XX
ELECTRICAL AND ELECTRONIC HAND TOOLS
INCLUDES:
TOOLS-HAND, ELECTRONIC REPAIR
TOOLS-HAND, PRINTED CIRCUIT BOARD
TOOLS-WIRE WRAP NTDS SERVICING
TOOLS-CRIMPING
TOOLS-HAND, NTDS TECHNICIAN
6652X0
ASROC/ TORPEDO/ MINE HANDLING
INCLUDES:
TOOLS-HAND
TORPEDO ROOM
6652Y6
ORDNANCE TOOLS AND ACCESSORIES
INCLUDES:
TOOLS-HAND, ASROC LAUNCHER AND HANDLING EQMT
TORPEDO WORKSHOP EQUIPMENT
66521N
FURNISHINGS AND OUTFITTINGS
66524P
PRESS-GROMMET AND EYELET
66528Z
SWITCHES-GENERAL
DDG-37 CLASS
PREPARED 11-15-77

AD-A050 589 ARINC RESEARCH CORP ANNAPOLIS MD F/G 13/10
SHIP SYSTEMS STAGING DIAGRAMS FOR DDG-37 CLASS SHIPS.(U)
DEC 77 N00140-76-D-0813
UNCLASSIFIED 1806-01-1-1690 NL

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AD A050589

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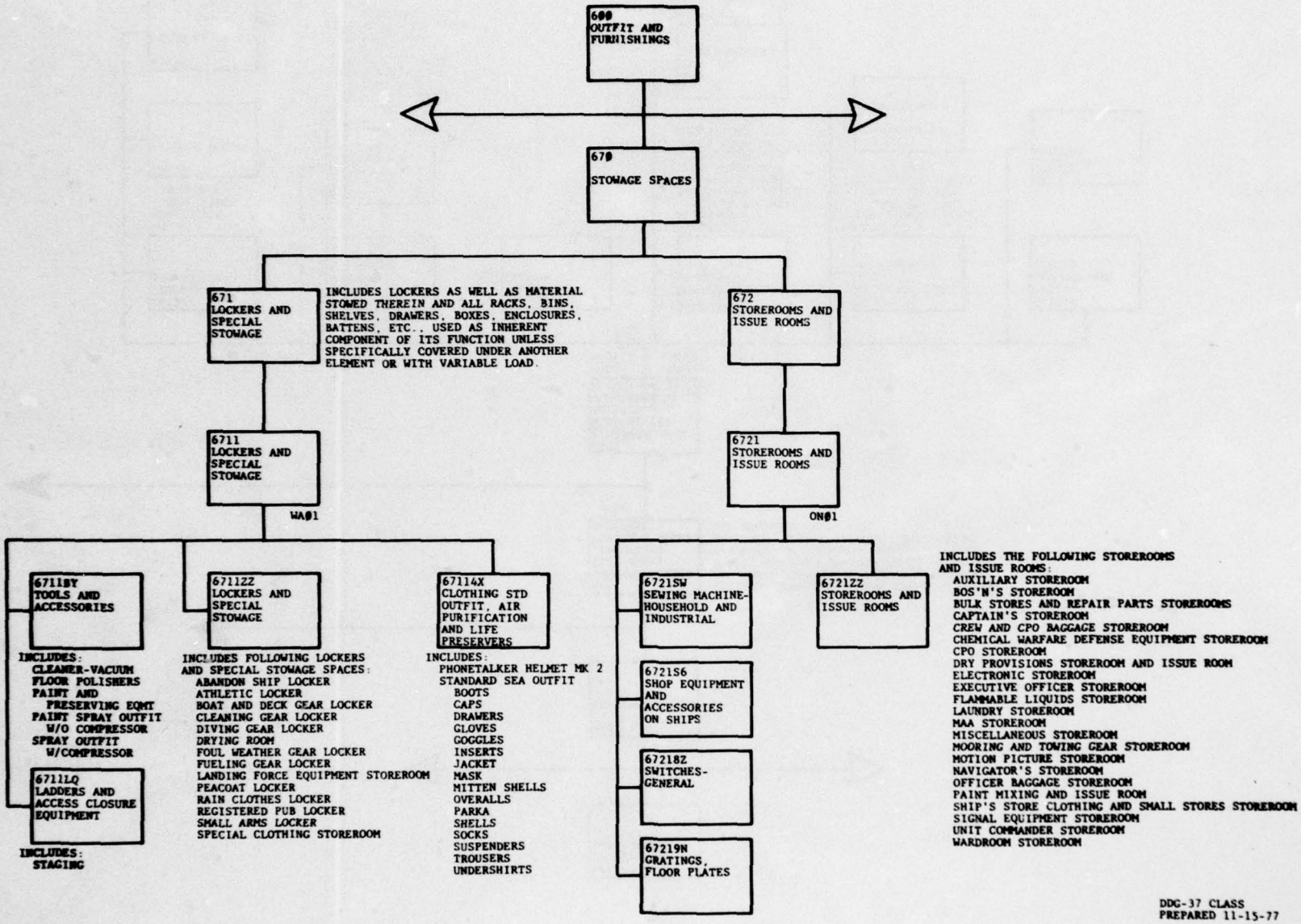
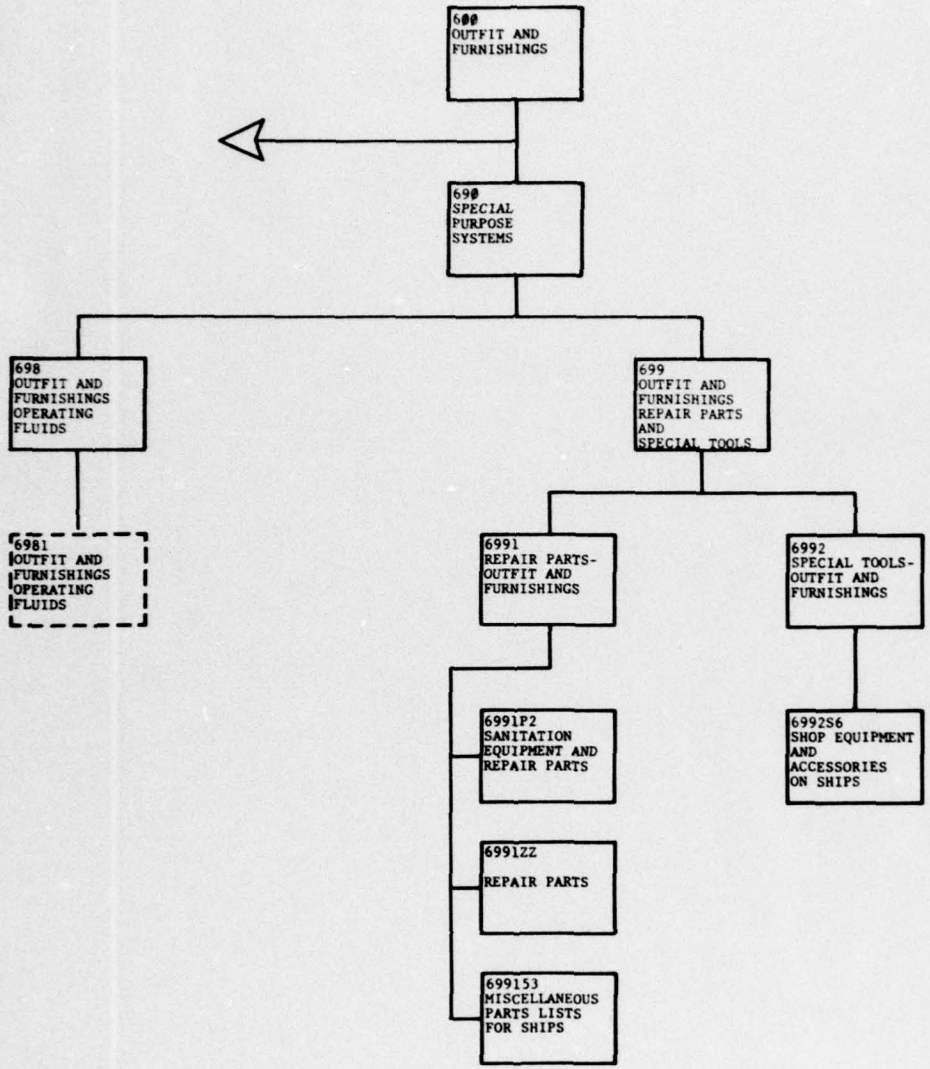


DDG-37 CLASS
PREPARED 11-15-77



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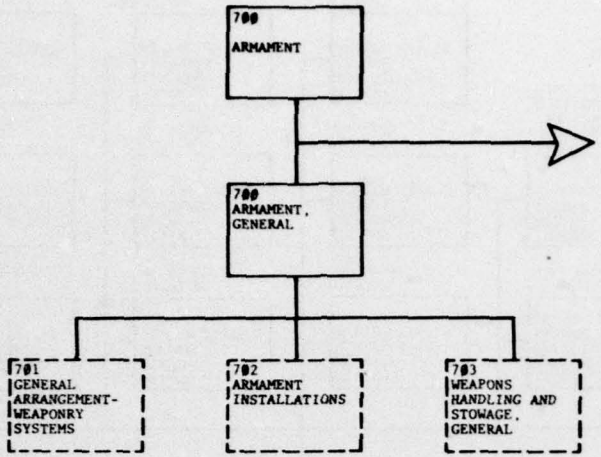
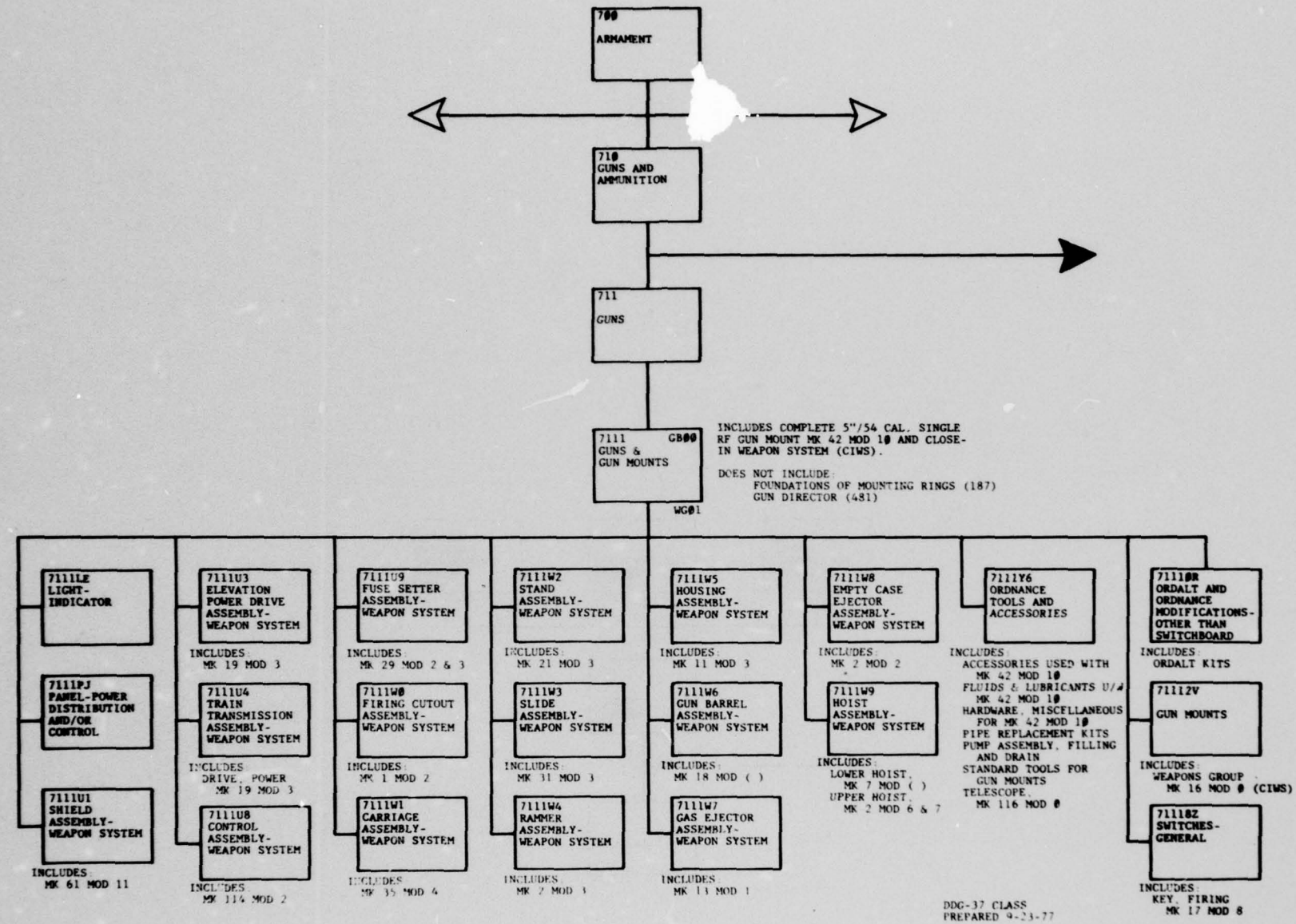
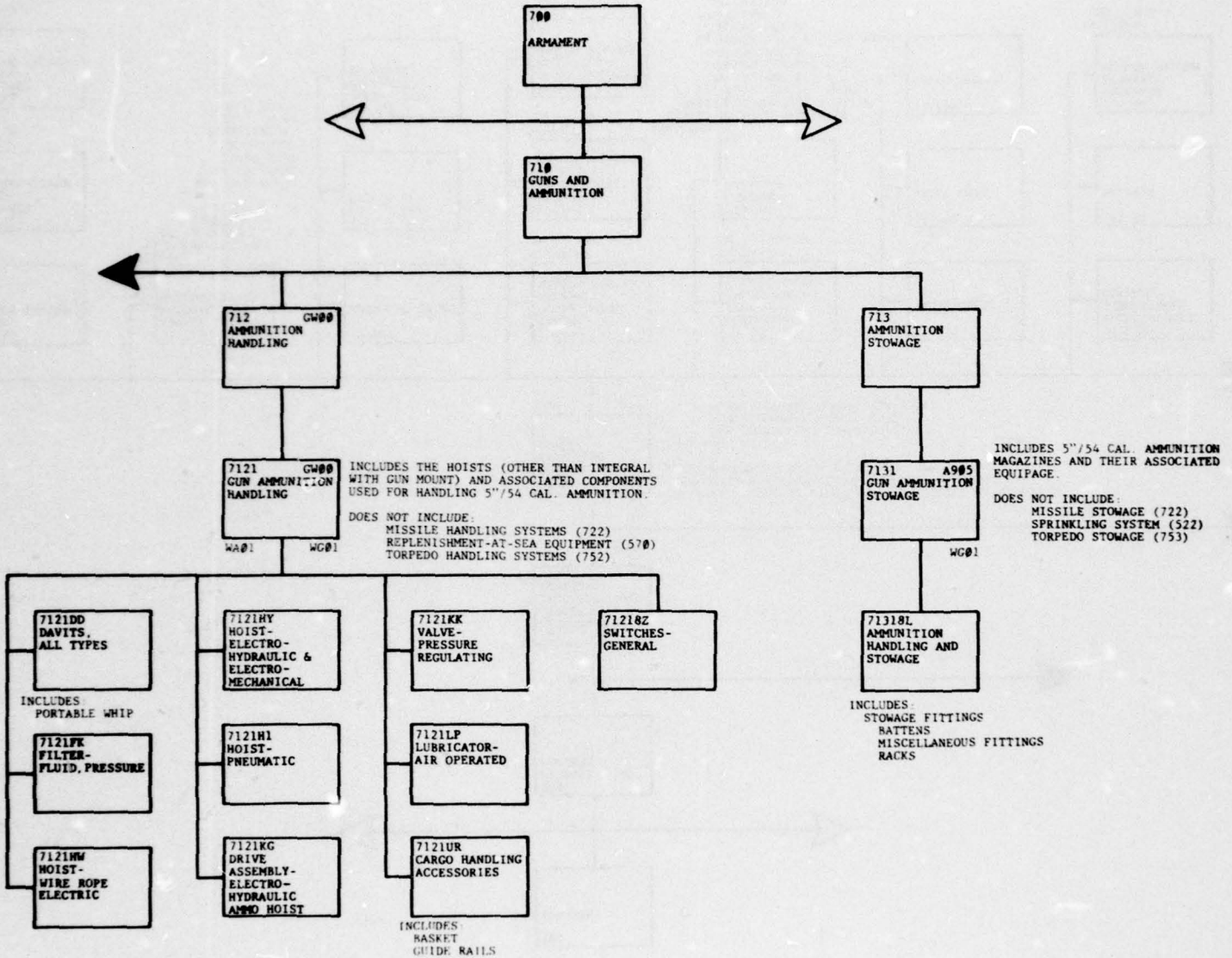
DDG-37 CLASS
PREPARED 8-30-77

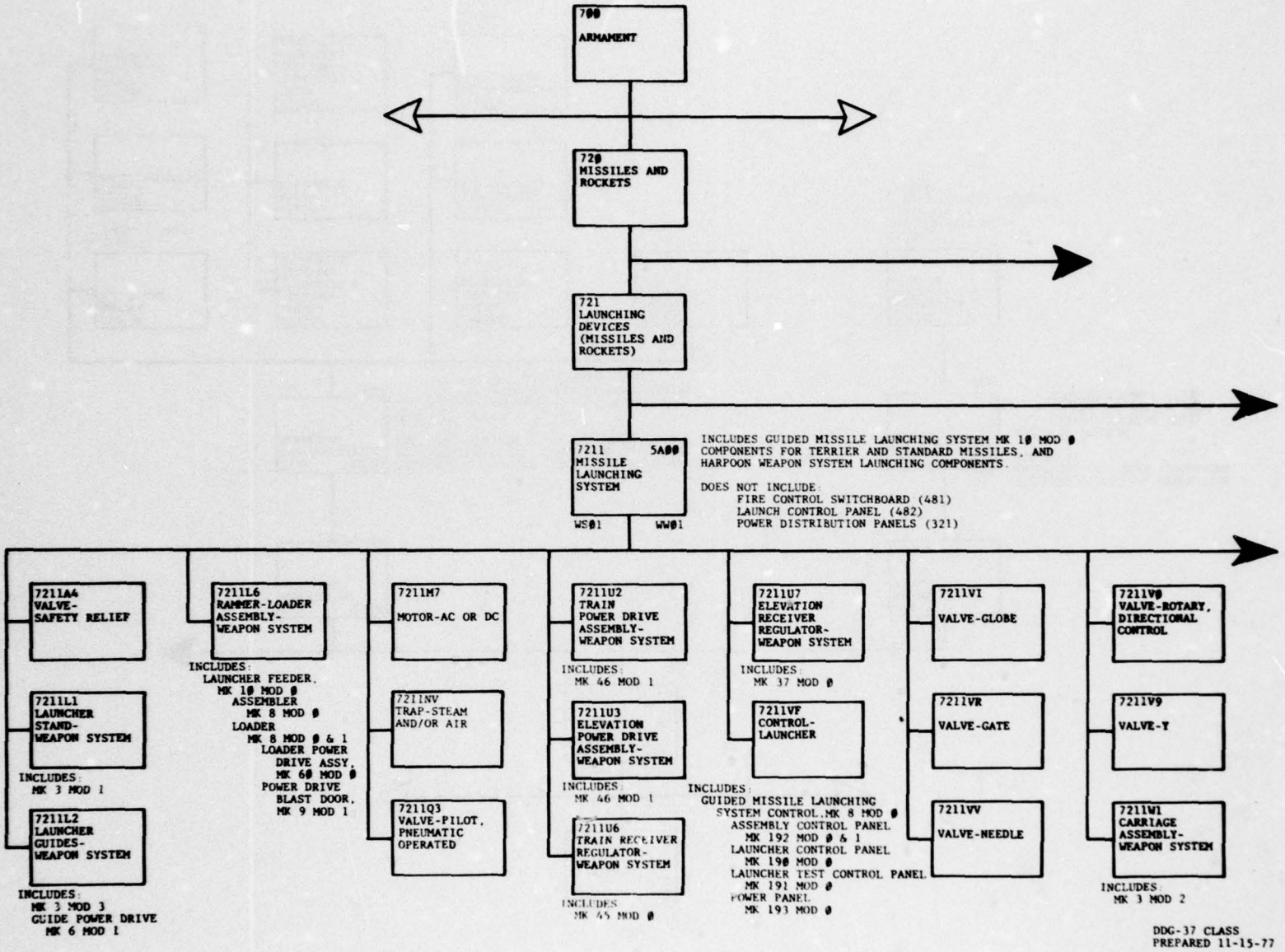


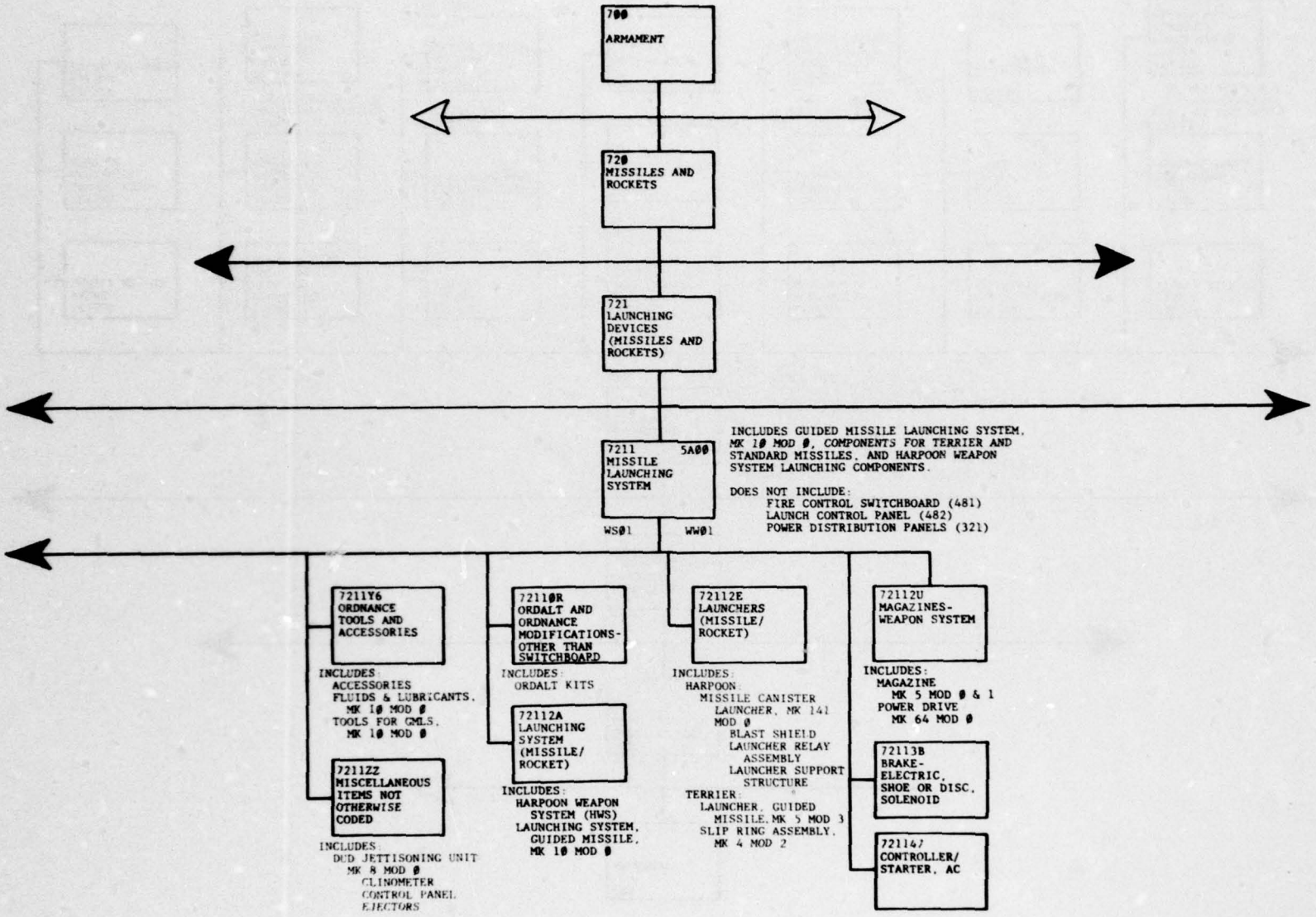
DDG-37 CLASS
PREPARED 9-23-77


700
ARMAMENT
710
GUNS AND AMMUNITION
711
GUNS
7111 GB00
GUNS & GUN MOUNTS
WG01
INCLUDES COMPLETE 5"/54 CAL. SINGLE RF GUN MOUNT MK 42 MOD 10 AND CLOSE-IN WEAPON SYSTEM (CIWS).
DOES NOT INCLUDE:
FOUNDATIONS OF MOUNTING RINGS (187)
GUN DIRECTOR (481)
7111LE LIGHT-INDICATOR
7111PJ PANEL-POWER DISTRIBUTION AND/OR CONTROL
7111U1 SHIELD ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 61 MOD 11
7111U3 ELEVATION POWER DRIVE ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 19 MOD 3
7111U4 TRAIN TRANSMISSION ASSEMBLY-WEAPON SYSTEM
INCLUDES: DRIVE, POWER MK 19 MOD 3
7111U8 CONTROL ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 114 MOD 2
7111U9 FUSE SETTER ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 29 MOD 2 & 3
7111W0 FIRING CUTOUT ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 1 MOD 2
7111W1 CARRIAGE ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 35 MOD 4
7111W2 STAND ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 21 MOD 3
7111W3 SLIDE ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 31 MOD 3
7111W4 RAMMER ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 7 MOD 3
7111W5 HOUSING ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 11 MOD 3
7111W6 GUN BARREL ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 18 MOD ( )
7111W7 GAS EJECTOR ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 13 MOD 1
7111W8 EMPTY CASE EJECTOR ASSEMBLY-WEAPON SYSTEM
INCLUDES: MK 2 MOD 2
7111W9 HOIST ASSEMBLY-WEAPON SYSTEM
INCLUDES: LOWER HOIST, MK 7 MOD ( )
UPPER HOIST, MK 2 MOD 6 & 7
7111Y6 ORDNANCE TOOLS AND ACCESSORIES
INCLUDES:
ACCESSORIES USED WITH MK 42 MOD 10
FLUIDS & LUBRICANTS U/4 MK 42 MOD 10
HARDWARE, MISCELLANEOUS FOR MK 42 MOD 10
PIPE REPLACEMENT KITS
PUMP ASSEMBLY, FILLING AND DRAIN
STANDARD TOOLS FOR GUN MOUNTS
TELESCOPE, MK 116 MOD 0
7111@R ORDALT AND ORDNANCE MODIFICATIONS-OTHER THAN SWITCHBOARD
INCLUDES: ORDALT KITS
7111Z2V GUN MOUNTS
INCLUDES: WEAPONS GROUP MK 16 MOD 0 (CIWS)
7111@Z SWITCHES-GENERAL
INCLUDES: KEY, FIRING MK 17 MOD 8
DDG-37 CLASS
PREPARED 9-23-77



DDG-37 CLASS
PREPARED 9-23-77


700
ARMAMENT
720
MISSILES AND ROCKETS
721
LAUNCHING DEVICES (MISSILES AND ROCKETS)
7211 5A00
MISSILE LAUNCHING SYSTEM
WS01 WW01
INCLUDES GUIDED MISSILE LAUNCHING SYSTEM MK 10 MOD 0 COMPONENTS FOR TERRIER AND STANDARD MISSILES, AND HARPOON WEAPON SYSTEM LAUNCHING COMPONENTS.
DOES NOT INCLUDE:
FIRE CONTROL SWITCHBOARD (481)
LAUNCH CONTROL PANEL (482)
POWER DISTRIBUTION PANELS (321)
7211A4
VALVE-SAFETY RELIEF
7211L1
LAUNCHER STAND-WEAPON SYSTEM
INCLUDES:
MK 3 MOD 1
7211L2
LAUNCHER GUIDES-WEAPON SYSTEM
INCLUDES:
MK 3 MOD 3
GUIDE POWER DRIVE
MK 6 MOD 1
7211L6
RAMMER-LOADER ASSEMBLY-WEAPON SYSTEM
INCLUDES:
LAUNCHER FEEDER, MK 10 MOD 0
ASSEMBLER MK 8 MOD 0
LOADER MK 8 MOD 0 & 1
LOADER POWER DRIVE ASSY, MK 60 MOD 0
POWER DRIVE BLAST DOOR, MK 9 MOD 1
7211M7
MOTOR-AC OR DC
7211NV
TRAP-STEAM AND/OR AIR
7211Q3
VALVE-PILOT, PNEUMATIC OPERATED
7211U2
TRAIN POWER DRIVE ASSEMBLY-WEAPON SYSTEM
INCLUDES:
MK 46 MOD 1
7211U3
ELEVATION POWER DRIVE ASSEMBLY-WEAPON SYSTEM
INCLUDES:
MK 46 MOD 1
7211U6
TRAIN RECEIVER REGULATOR-WEAPON SYSTEM
INCLUDES:
MK 45 MOD 0
7211U7
ELEVATION RECEIVER REGULATOR-WEAPON SYSTEM
INCLUDES:
MK 37 MOD 0
7211VF
CONTROL-LAUNCHER
INCLUDES:
GUIDED MISSILE LAUNCHING SYSTEM CONTROL, MK 8 MOD 0
ASSEMBLY CONTROL PANEL MK 192 MOD 0 & 1
LAUNCHER CONTROL PANEL MK 190 MOD 0
LAUNCHER TEST CONTROL PANEL MK 191 MOD 0
POWER PANEL MK 193 MOD 0
7211VI
VALVE-GLOBE
7211VR
VALVE-GATE
7211VV
VALVE-NEEDLE
7211V0
VALVE-ROTARY, DIRECTIONAL CONTROL
7211V9
VALVE-Y
7211W1
CARRIAGE ASSEMBLY-WEAPON SYSTEM
INCLUDES:
MK 3 MOD 2
DDG-37 CLASS
PREPARED 11-15-77



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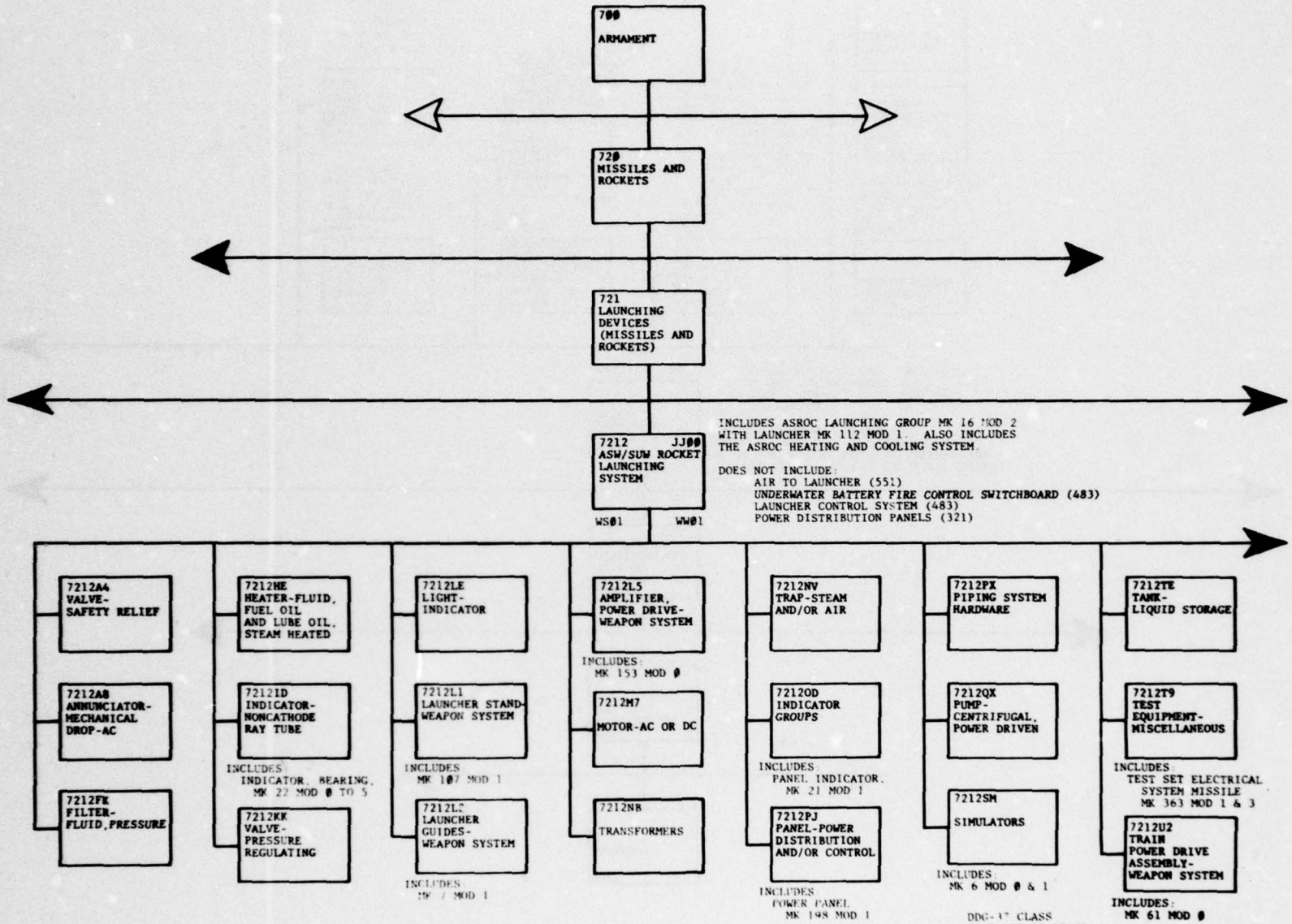
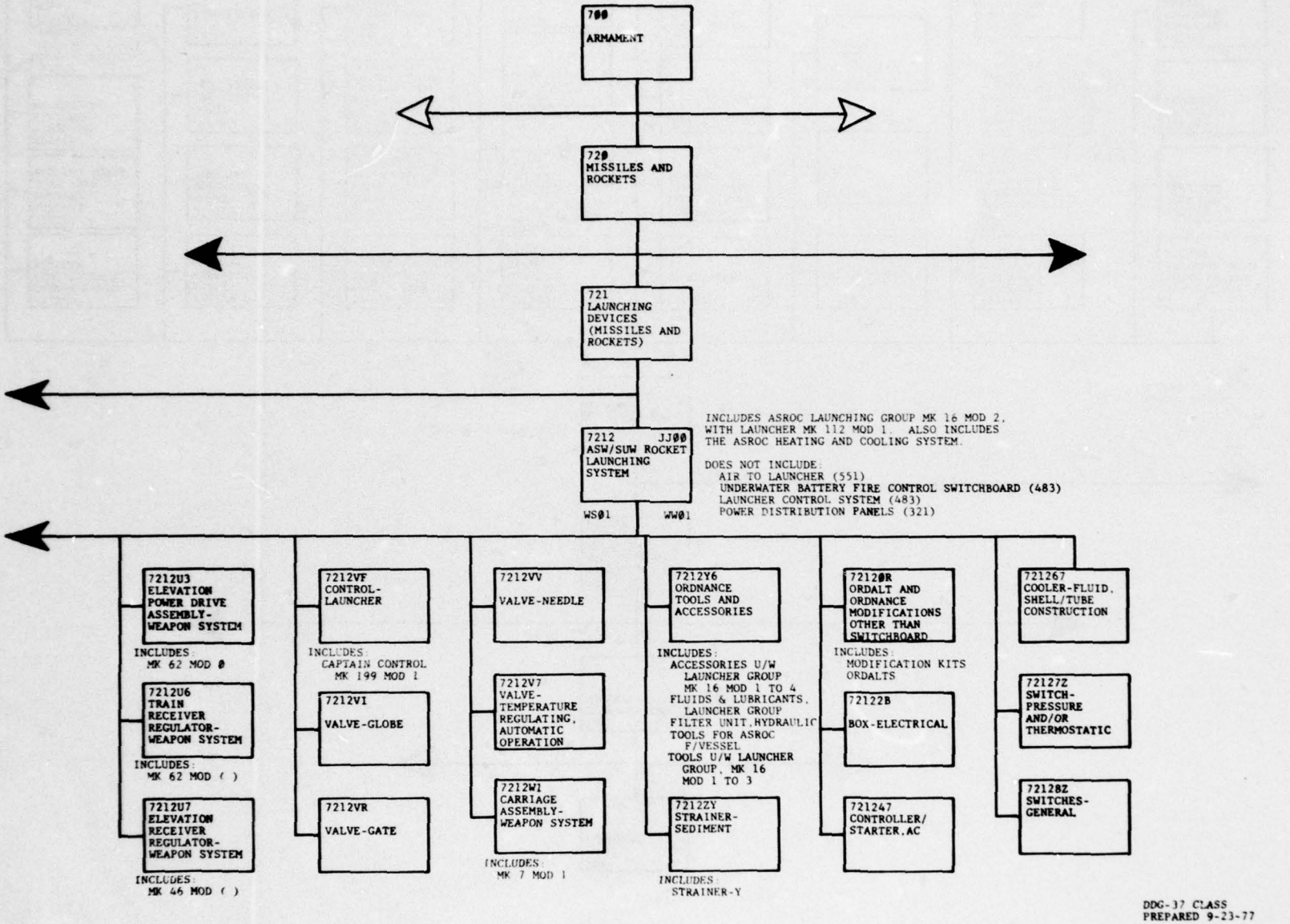
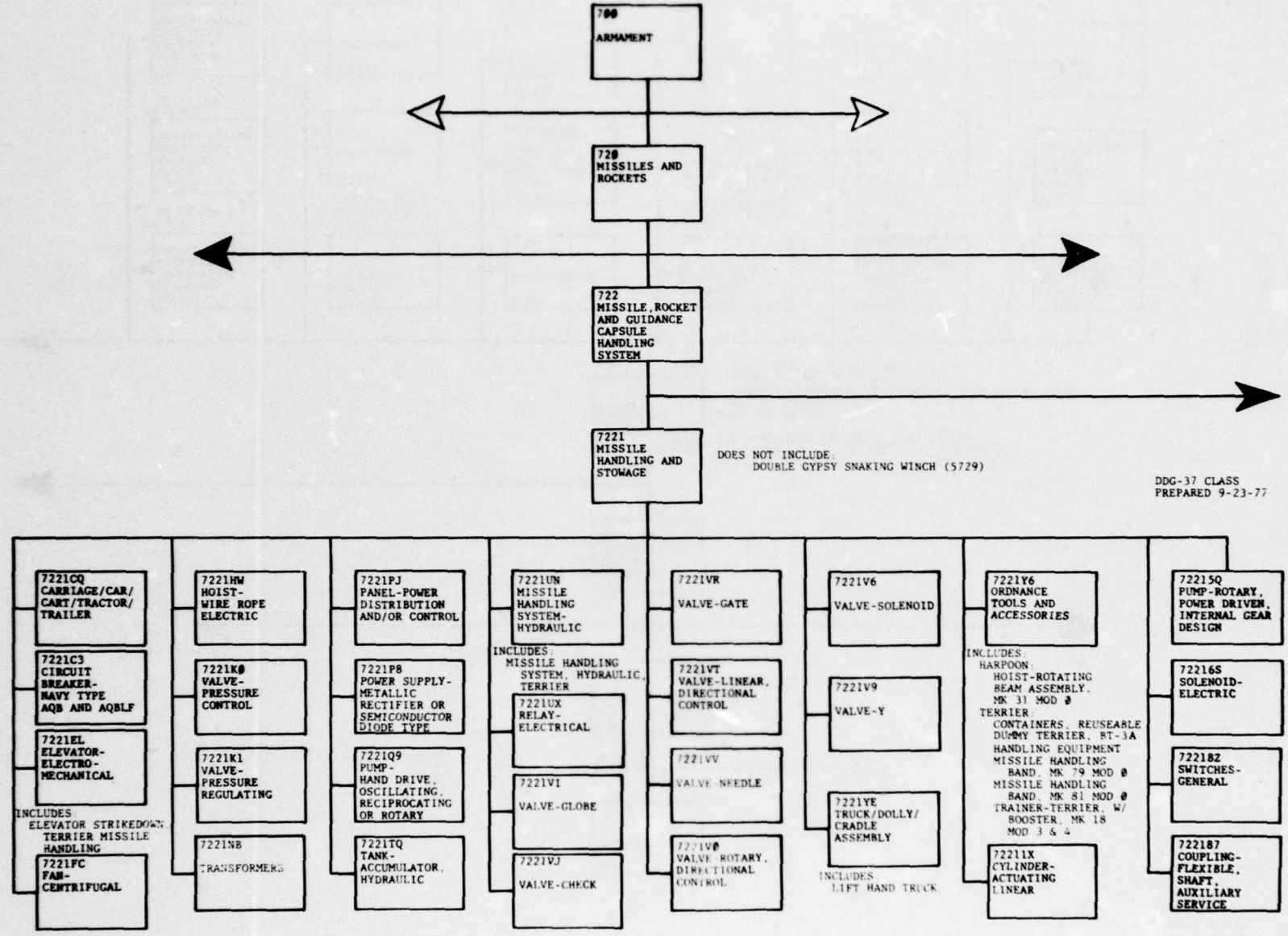
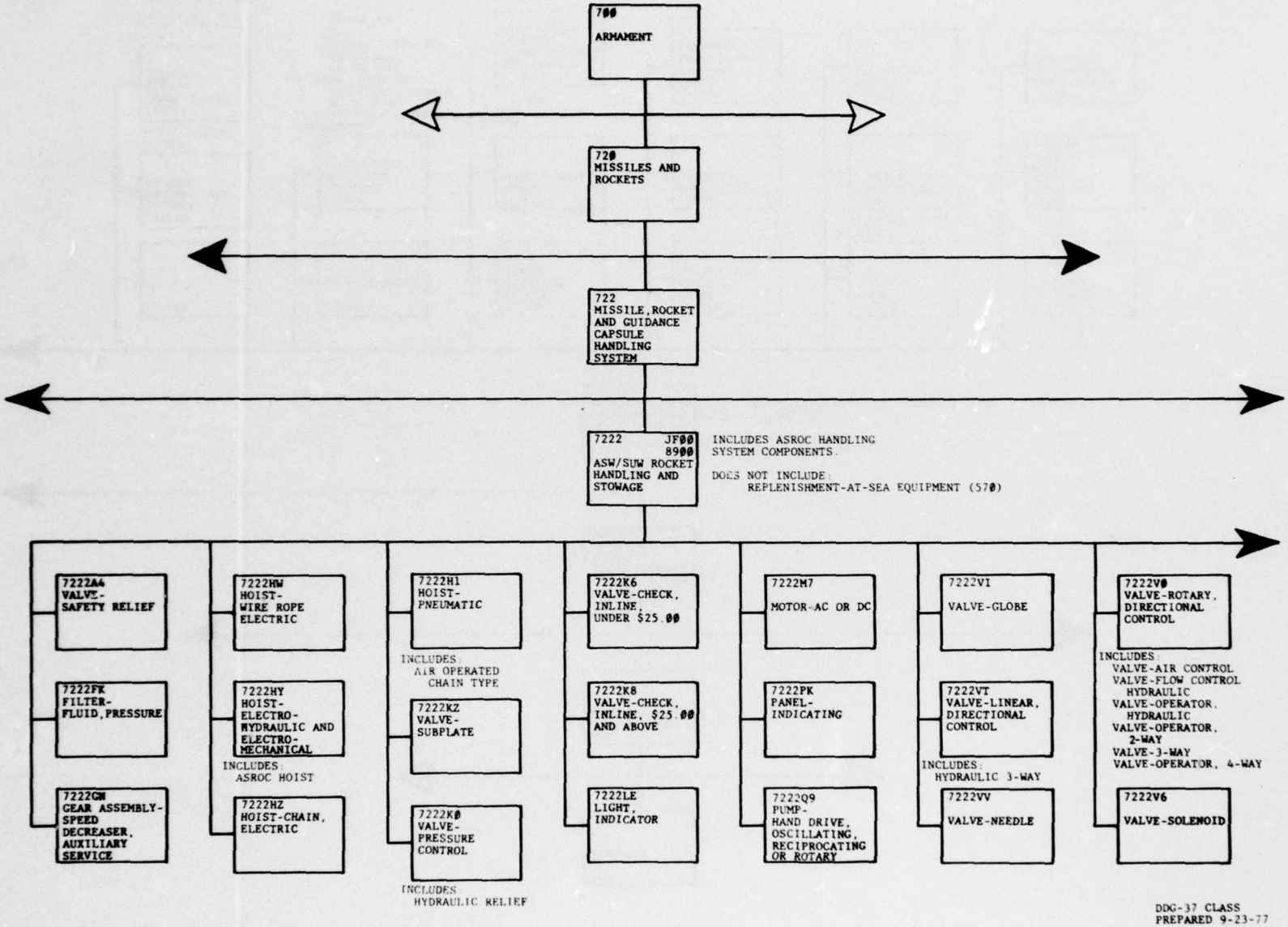
PREPARED 11-15-77

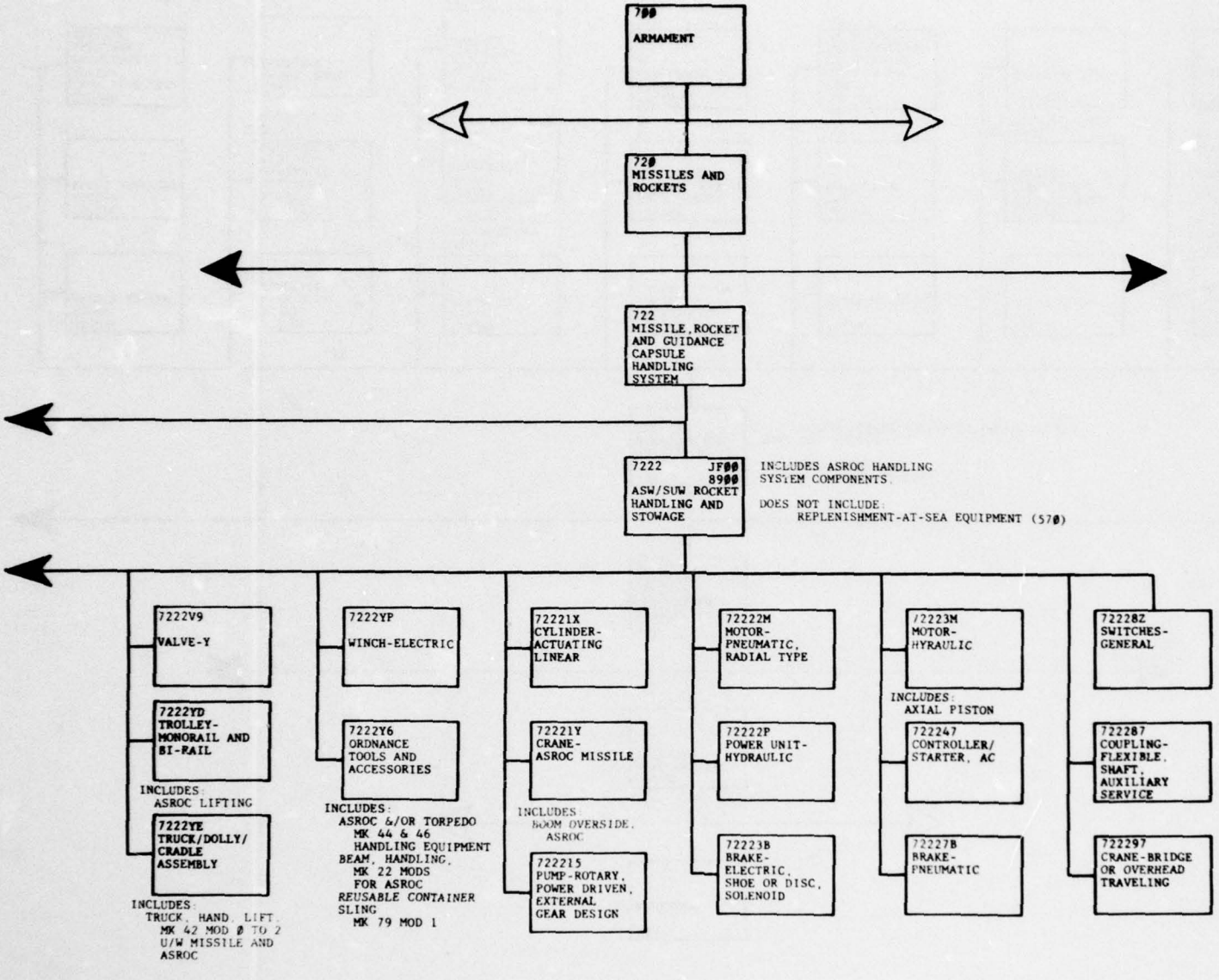

700
ARMAMENT
720
MISSILES AND ROCKETS
721
LAUNCHING DEVICES (MISSILES AND ROCKETS)
7212 JJ00
ASW/SUW ROCKET LAUNCHING SYSTEM
WS01
WW01
INCLUDES ASROC LAUNCHING GROUP MK 16 MOD 2 WITH LAUNCHER MK 112 MOD 1. ALSO INCLUDES THE ASROC HEATING AND COOLING SYSTEM.
DOES NOT INCLUDE:
AIR TO LAUNCHER (551)
UNDERWATER BATTERY FIRE CONTROL SWITCHBOARD (483)
LAUNCHER CONTROL SYSTEM (483)
POWER DISTRIBUTION PANELS (321)
7212A4
VALVE-SAFETY RELIEF
7212A8
ANNUNCIATOR-MECHANICAL DROP-AC
7212FK
FILTER-FLUID, PRESSURE
7212HE
HEATER-FLUID, FUEL OIL AND LUBE OIL, STEAM HEATED
7212ID
INDICATOR-NONCATHODE RAY TUBE
INCLUDES:
INDICATOR, BEARING, MK 22 MOD 0 TO 5
7212KK
VALVE-PRESSURE REGULATING
7212LE
LIGHT-INDICATOR
7212L1
LAUNCHER STAND-WEAPON SYSTEM
INCLUDES
MK 107 MOD 1
7212L2
LAUNCHER GUIDES-WEAPON SYSTEM
INCLUDES
MK 7 MOD 1
7212L5
AMPLIFIER, POWER DRIVE-WEAPON SYSTEM
INCLUDES:
MK 153 MOD 0
7212M7
MOTOR-AC OR DC
7212NB
TRANSFORMERS
7212NV
TRAP-STEAM AND/OR AIR
7212OD
INDICATOR GROUPS
INCLUDES:
PANEL INDICATOR, MK 21 MOD 1
7212PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
INCLUDES
POWER PANEL MK 198 MOD 1
7212PX
PIPING SYSTEM HARDWARE
7212QX
PUMP-CENTRIFUGAL, POWER DRIVEN
7212SM
SIMULATORS
INCLUDES:
MK 6 MOD 0 & 1
DDG-47 CLASS
PREPARED 11-15-77
7212TE
TANK-LIQUID STORAGE
7212T9
TEST EQUIPMENT-MISCELLANEOUS
INCLUDES:
TEST SET ELECTRICAL SYSTEM MISSILE MK 363 MOD 1 & 3
7212U2
TRAIN POWER DRIVE ASSEMBLY-WEAPON SYSTEM
INCLUDES:
MK 61 MOD 0



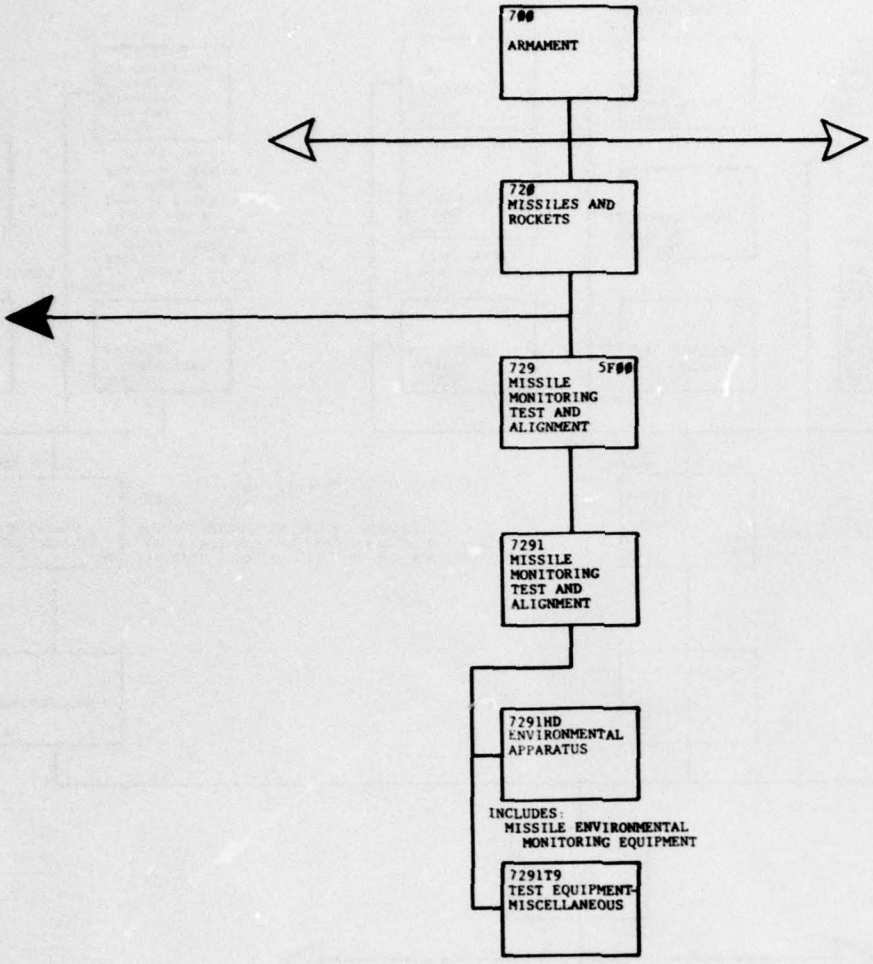
DDG-37 CLASS
PREPARED 9-23-77


700
ARMAMENT
720
MISSILES AND ROCKETS
722
MISSILE, ROCKET AND GUIDANCE CAPSULE HANDLING SYSTEM
7221
MISSILE HANDLING AND STOWAGE
DOES NOT INCLUDE:
DOUBLE GYPSY SNAKING WINCH (5729)
DDG-37 CLASS
PREPARED 9-23-77
7221CQ
CARRIAGE/CAR/CART/TRACTOR/TRAILER
7221C3
CIRCUIT BREAKER-NAVY TYPE AQB AND AQBLF
7221EL
ELEVATOR-ELECTRO-MECHANICAL
INCLUDES:
ELEVATOR STRIKEDOWN:
TERRIER MISSILE HANDLING
7221FC
FAN-CENTRIFUGAL
7221HW
HOIST-WIRE ROPE ELECTRIC
7221K0
VALVE-PRESSURE CONTROL
7221K1
VALVE-PRESSURE REGULATING
7221NB
TRANSFORMERS
7221PJ
PANEL-POWER DISTRIBUTION AND/OR CONTROL
7221P8
POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
7221Q9
PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY
7221TQ
TANK-ACCUMULATOR, HYDRAULIC
7221UN
MISSILE HANDLING SYSTEM-HYDRAULIC
INCLUDES:
MISSILE HANDLING SYSTEM, HYDRAULIC, TERRIER
7221UX
RELAY-ELECTRICAL
7221VI
VALVE-GLOBE
7221VJ
VALVE-CHECK
7221VR
VALVE-GATE
7221VT
VALVE-LINEAR, DIRECTIONAL CONTROL
7221VV
VALVE-NEEDLE
7221V0
VALVE-ROTARY, DIRECTIONAL CONTROL
7221V6
VALVE-SOLENOID
7221V9
VALVE-Y
7221YE
TRUCK/DOLLY/CRADLE ASSEMBLY
INCLUDES:
LIFT HAND TRUCK
7221Y6
ORDNANCE TOOLS AND ACCESSORIES
INCLUDES:
HARPOON:
HOIST-ROTATING BEAM ASSEMBLY, MK 31 MOD 0
TERRIER:
CONTAINERS, REUSEABLE DUMMY TERRIER, BT-3A
HANDLING EQUIPMENT MISSILE HANDLING BAND, MK 79 MOD 0
MISSILE HANDLING BAND, MK 81 MOD 0
TRAINER-TERRIER, W/ BOOSTER, MK 18 MOD 3 & 4
72211X
CYLINDER-ACTUATING LINEAR
72215Q
PUMP-ROTARY, POWER DRIVEN, INTERNAL GEAR DESIGN
72216S
SOLENOID-ELECTRIC
72218Z
SWITCHES-GENERAL
722187
COUPLING-FLEXIBLE, SHAFT, AUXILIARY SERVICE


700
ARMAMENT
720
MISSILES AND ROCKETS
722
MISSILE, ROCKET AND GUIDANCE CAPSULE HANDLING SYSTEM
7222 JF00 8900
ASW/SUW ROCKET HANDLING AND STOWAGE
INCLUDES ASROC HANDLING SYSTEM COMPONENTS.
DOES NOT INCLUDE:
REPLENISHMENT-AT-SEA EQUIPMENT (570)
7222A4 VALVE-SAFETY RELIEF
7222FK FILTER-FLUID, PRESSURE
7222GN GEAR ASSEMBLY-SPEED DECREASER, AUXILIARY SERVICE
7222HW HOIST-WIRE ROPE ELECTRIC
7222HY HOIST-ELECTRO-HYDRAULIC AND ELECTRO-MECHANICAL
INCLUDES: ASROC HOIST
7222HZ HOIST-CHAIN, ELECTRIC
7222H1 HOIST-PNEUMATIC
INCLUDES: AIR OPERATED CHAIN TYPE
7222KZ VALVE-SUBPLATE
7222K0 VALVE-PRESSURE CONTROL
INCLUDES: HYDRAULIC RELIEF
7222K6 VALVE-CHECK, INLINE, UNDER $25.00
7222K8 VALVE-CHECK, INLINE, $25.00 AND ABOVE
7222LE LIGHT, INDICATOR
7222M7 MOTOR-AC OR DC
7222PK PANEL-INDICATING
7222Q9 PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY
7222VI VALVE-GLOBE
7222VT VALVE-LINEAR, DIRECTIONAL CONTROL
INCLUDES: HYDRAULIC 3-WAY
7222VV VALVE-NEEDLE
7222V0 VALVE-ROTARY, DIRECTIONAL CONTROL
INCLUDES:
VALVE-AIR CONTROL
VALVE-FLOW CONTROL HYDRAULIC
VALVE-OPERATOR, HYDRAULIC
VALVE-OPERATOR, 2-WAY
VALVE-3-WAY
VALVE-OPERATOR, 4-WAY
7222V6 VALVE-SOLENOID
DDG-37 CLASS
PREPARED 9-23-77



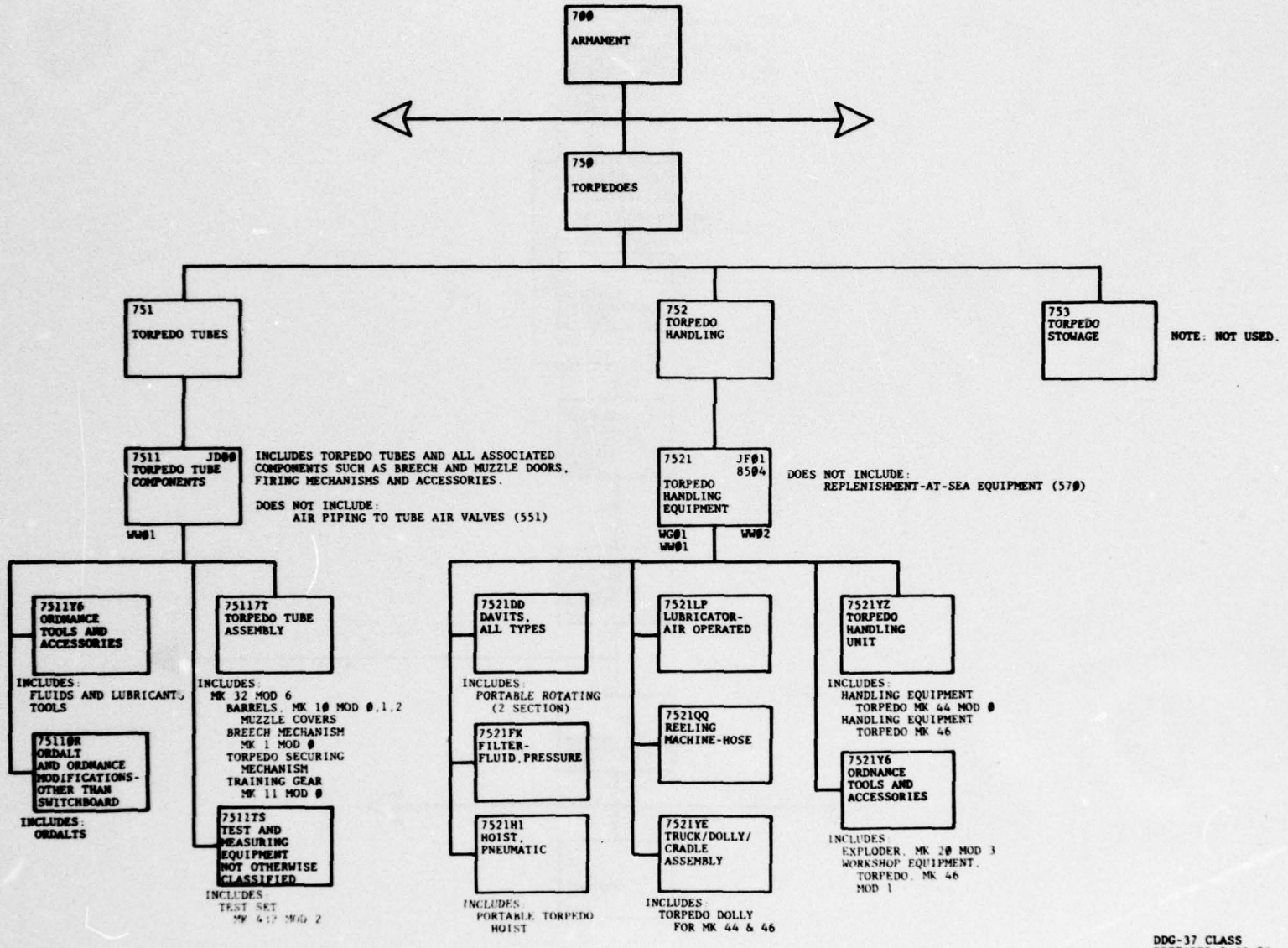
DDG-37 CLASS
PREPARED 11-15-77



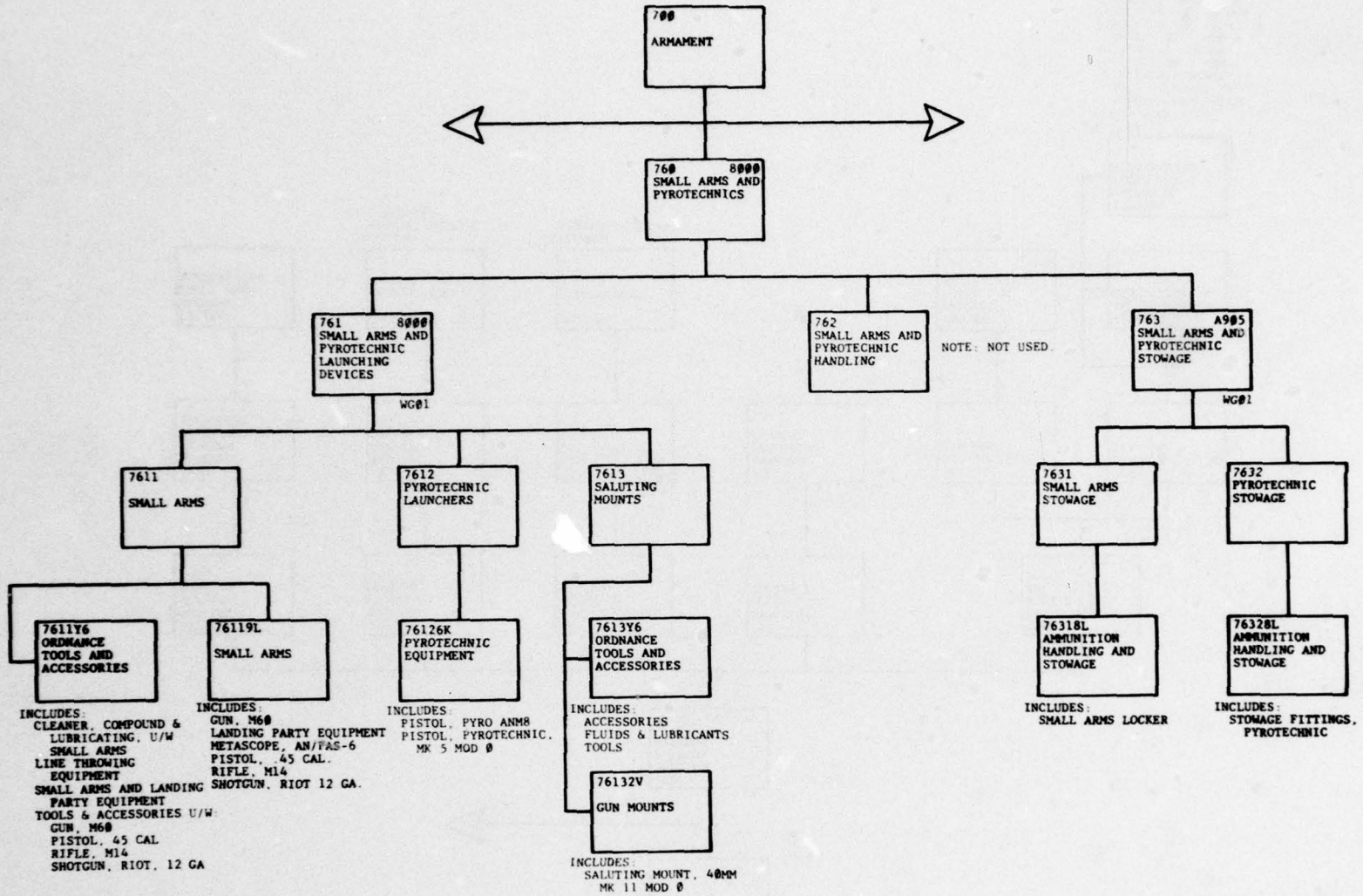
INCLUDES:
AN/DSM-54(V)
* AN/SKQ-3
MISSILE OPTICAL AND ELECTRICAL
ALIGNMENT GROUP
MISSILE TEST AND READINESS
EQUIPMENT (MTRE)
MISSILE TEST INSTRUMENTATION (TI)
SIGNAL COMPARATOR
MK 2 MOD 1
SM-159D/DSM
TERRIER CHANNEL SELECTOR
MK 5 MOD 0

* CABLING AND FOUNDATIONS ONLY

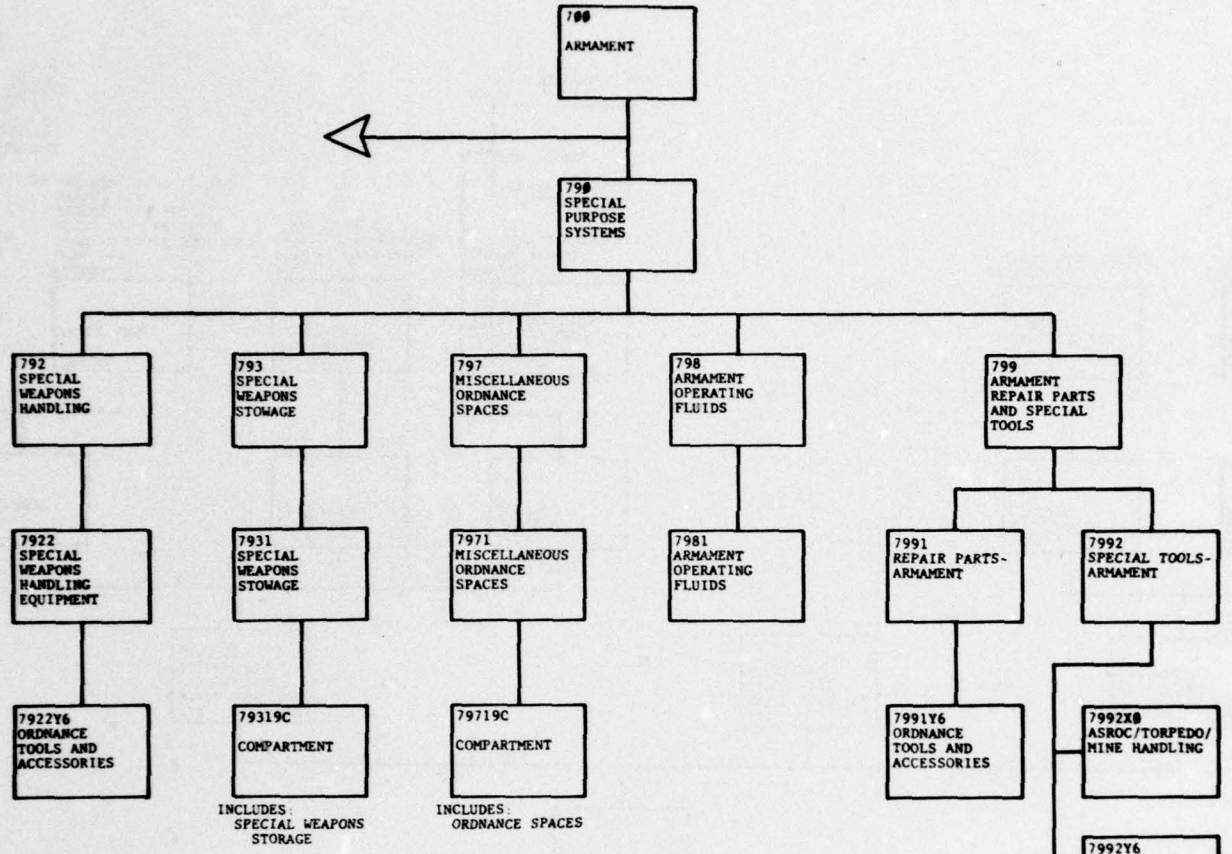
DDG-37 CLASS
PREPARED 11-15-77



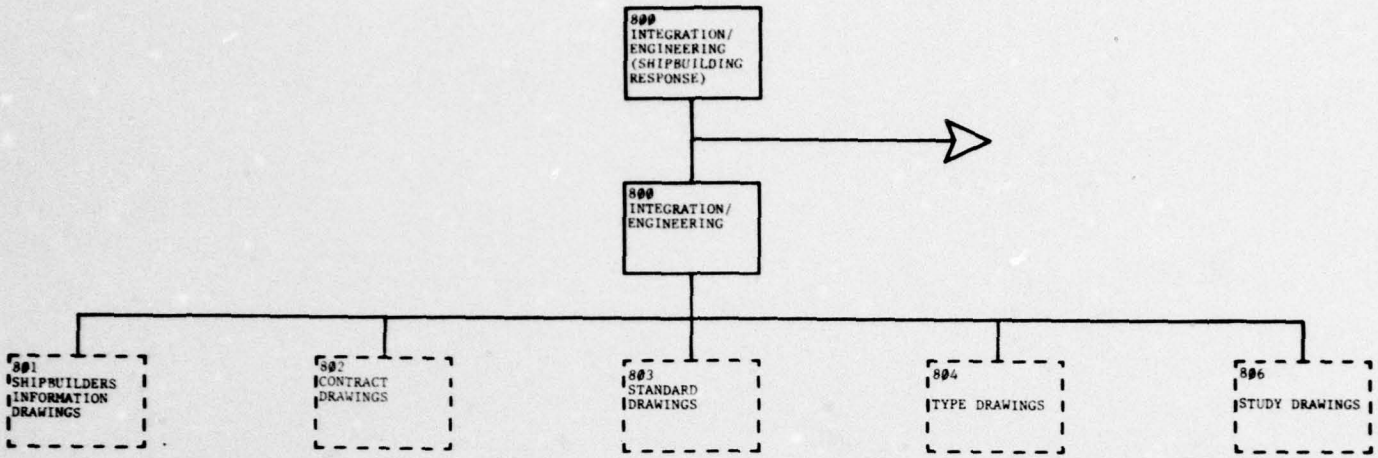
DDG-37 CLASS
PREPARED 9-23-77



DDG-37 CLASS
PREPARED 9-23-77



DDG-37 CLASS
PREPARED 9-23-77



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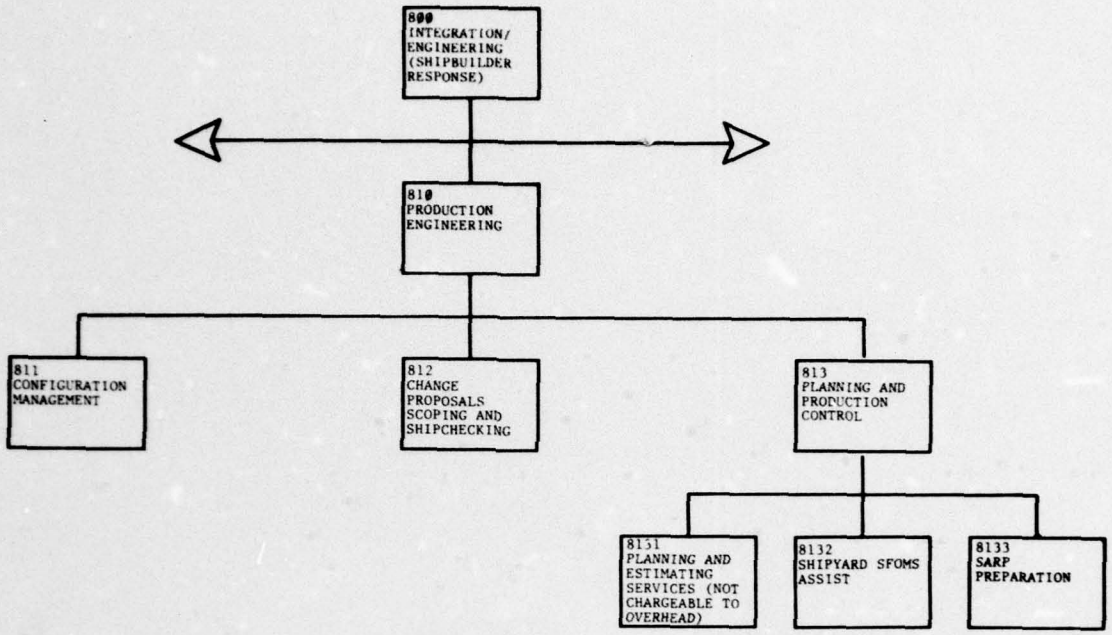
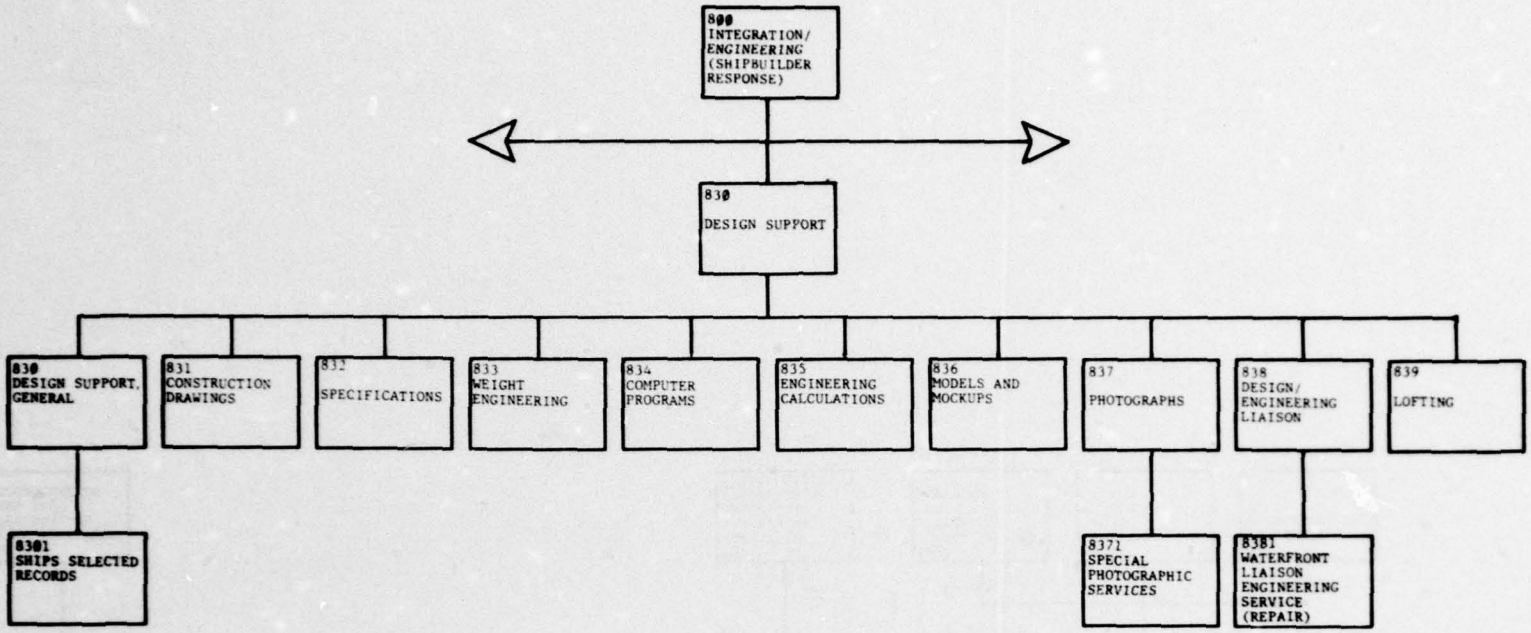
PREPARED 9-26-77



DDG-37 CLASS
PREPARED 9-26-77



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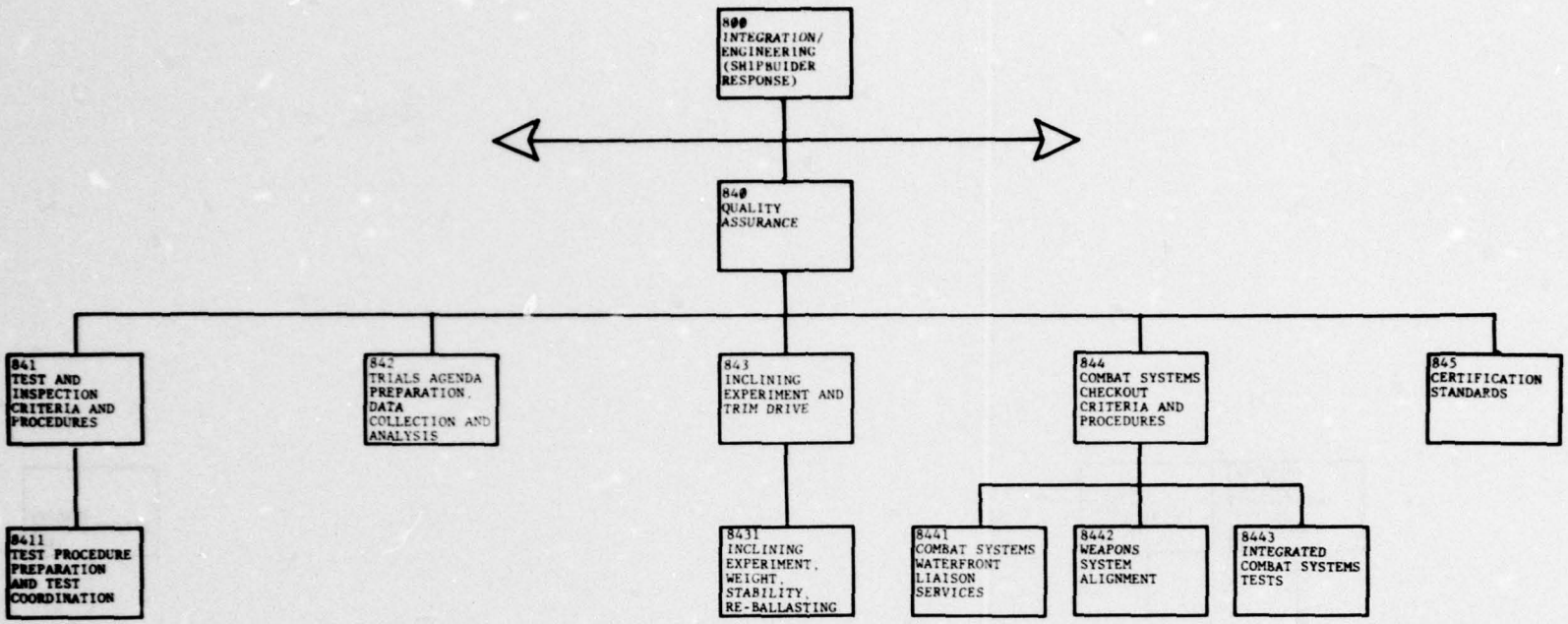
PREPARED 9-26-77



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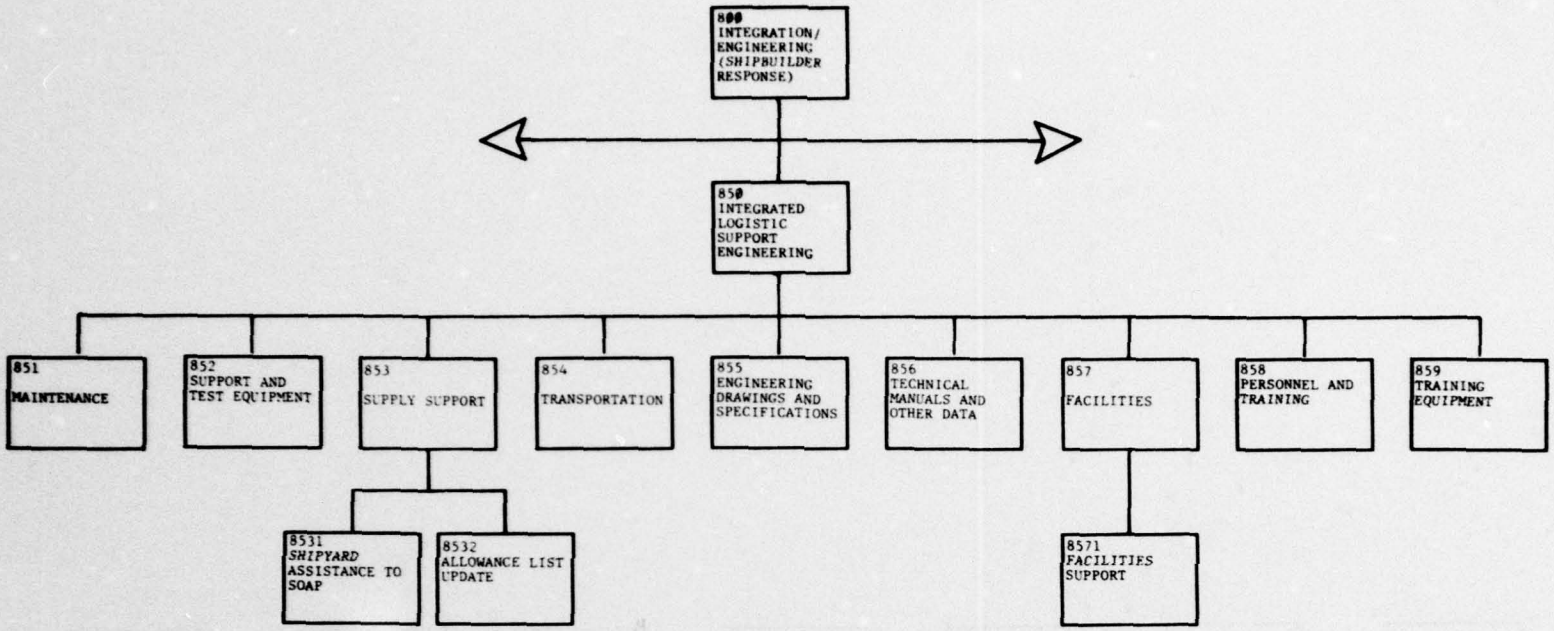
PREPARED 9-26-77



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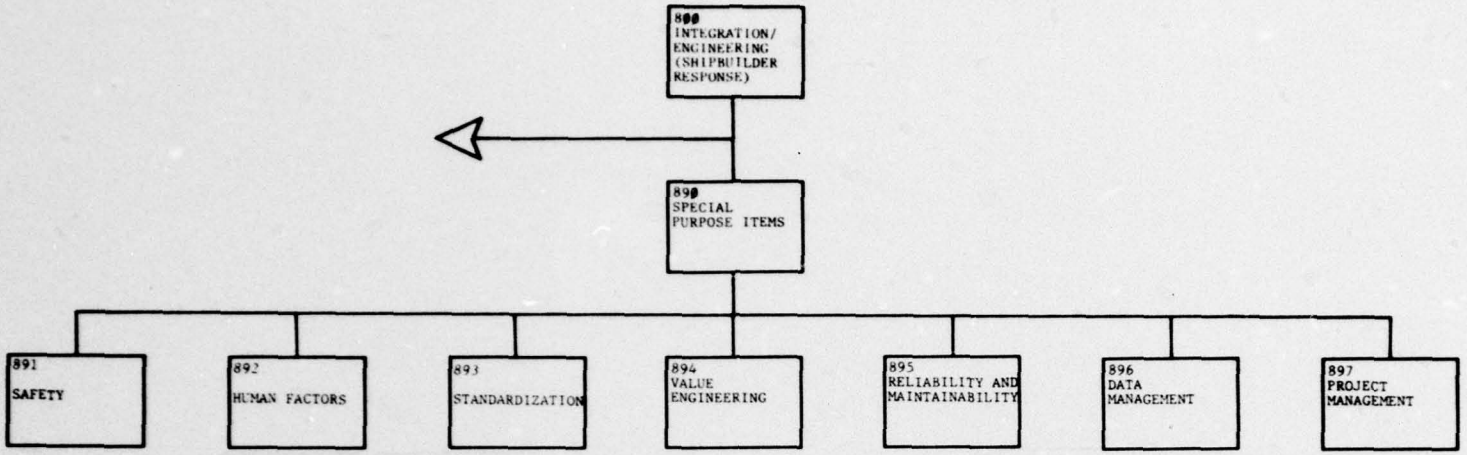
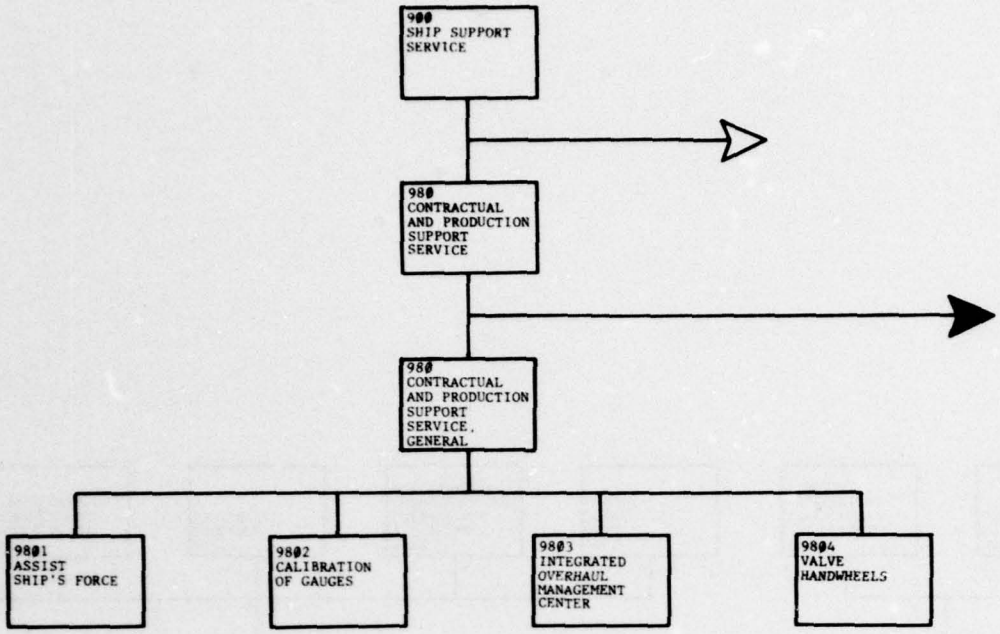
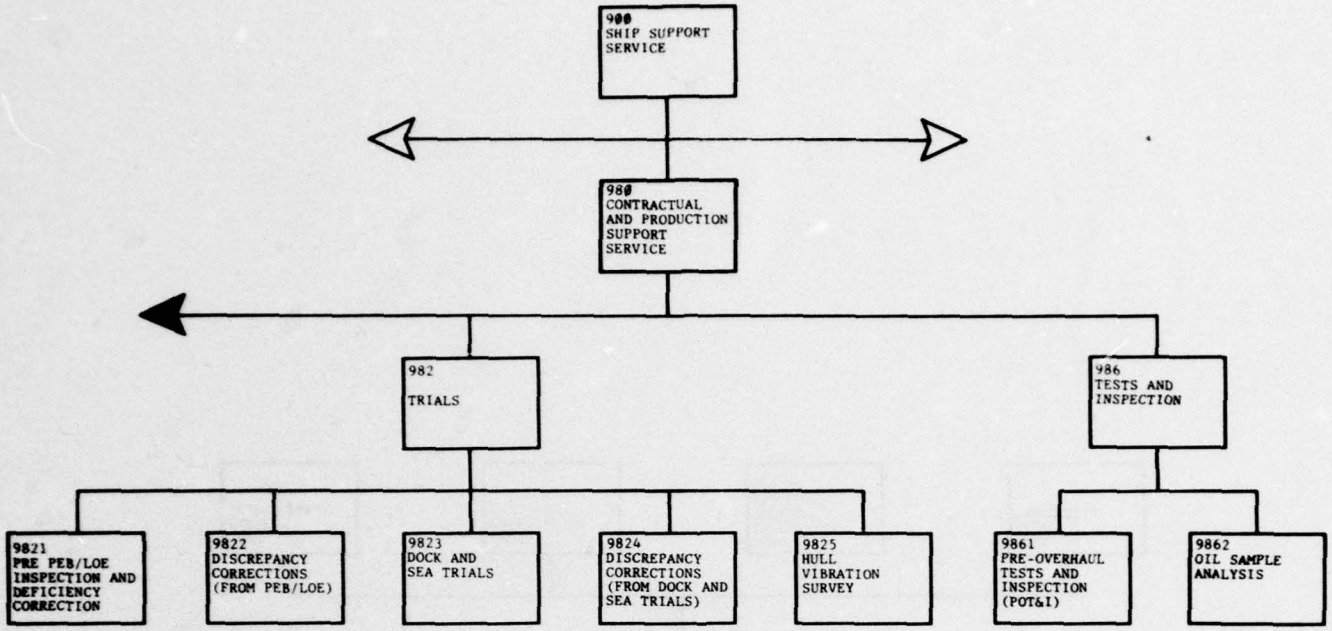
PREPARED 9-26-77



DDG-37 CLASS
PREPARED 9-26-77



DDG-37 CLASS
PREPARED 11-15-77



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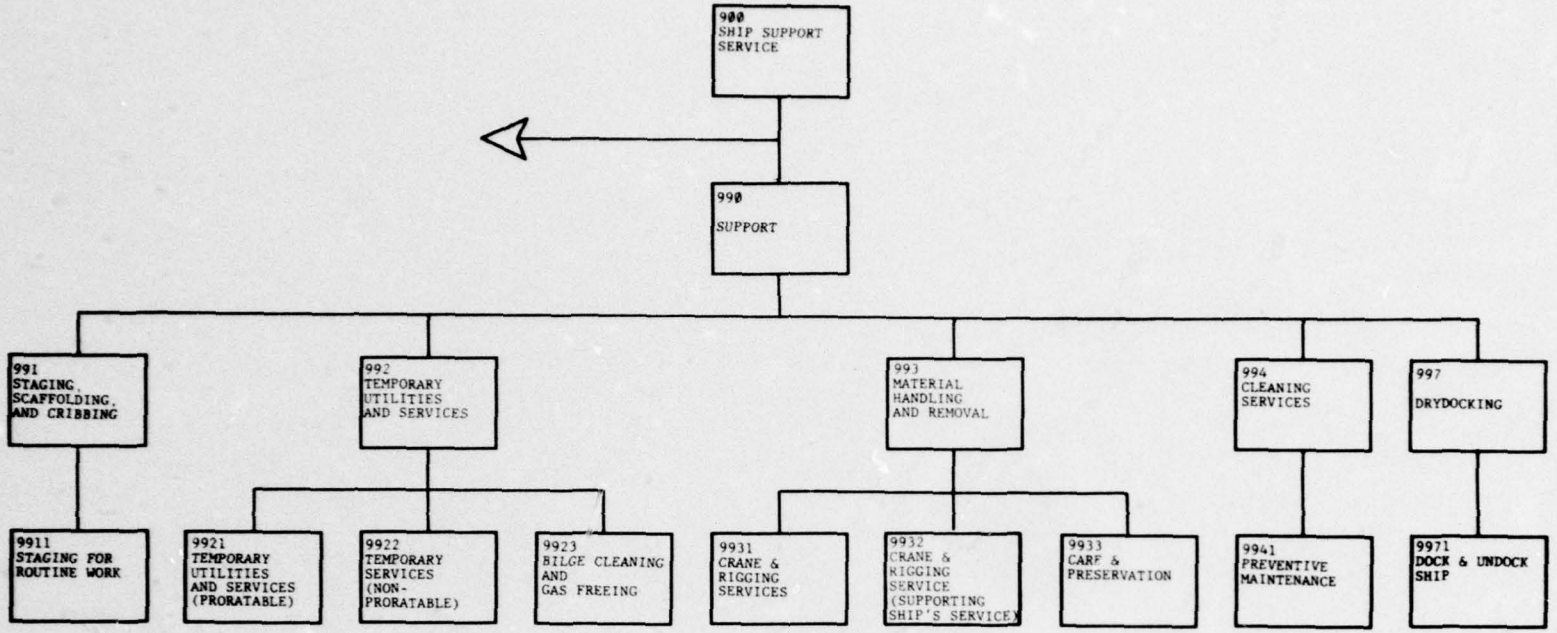
PREPARED 11-15-77



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DDG-37 CLASS
PREPARED 11-15-77

APPENDIX A

COMPONENT DICTIONARY CODE LIST

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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	33-002	AIR CONDITIONER
AO		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-STERNTUBE, SUBMARINE APPLICATION
A0	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	B22	STEERING AND DIVING TOOLS AND REPAIR PARTS
A7	B23	TOOLS AND EQUIPMENT O2N2 PLANT
A8	23-006	ANNUNCIATOR-MECHANICAL DROP-AC
A9	B24	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	C4-002	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	C5-023	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	53-003	BLENDER-AVIATION FUEL
BS	05-030	TURBOSUPERCHARGER-CENTRIFUGAL BOILER
BT	05-031	TURBINE-GAS
BU	02-001	BOILER-MAIN PROPULSION, 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	BZ-	ALARM UNITS (ELEX)
B0		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 POT
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 CONTROL-AUTOMATIC PLOTING
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)
CP	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
C0	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 AQB AND AQBLF
C4	14-002	CIRCUIT BREAKER-NAVY TYPE NQB AND NLB
C5	14-003	CIRCUIT BREAKER-NAVY TYPE ACB

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CDC	LAPL	
C6	14-004	CIRCUIT BREAKER-NAVY TYPE ALB
C7	14-006	CIRCUIT BREAKER-OTHER THAN AQB. NQB. ACB.ALB TYPES
C8	41-148	CLEANING MACHINE-ALL TYPES EXCEPT BLAST CLNG CAB
C9	99-006	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-FILTER, DESICCANT, HGH PRES AIR, SELF REAC
DN	44-004	DEHYDRATOR-NON REACTIVATING
DO		NOT ASSIGNED
DP	08-007	DEMINERALIZER-WATER. ION EXCHANGE
DQ	99-027	DESUPERHEATERS-ALL TYPES
DR	06-205	COMPRESSOR UNIT-AIR
DS	33-005	DAMPER-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 DRNKG FTN(67-006)
DY	DY-	DYNAMOTORS (ELEX)
DZ	32-032	DISPENSER-MECHANICALLY REFRIGERATED, MILK
D0	09-002	CHARGER-BATTERY. D.C.
D1	41-146	DISPENSER-TAPE. ELECTRIC
D2	32-031	DISPLAY CASE-MECH REF.SELF CONTND/NON-REFR
D3	06-002	COMPRESSOR-RECIPROCATING
D4	08-001	DISTILLATION UNIT
D5	52-015	DESURGER-HYDRAULIC
D6	32-027	DISPENSER-MECH REF.OTHR THN MLK SEE CAB.ICE CR/FREEZR
D7	08-005	DISTILLATION UNIT-VAPOR COMPRESSION
D8	85-011	DOLLY-BOATSTORAGE SEE ALSO TRK/DOLLY/CRADLE ASS
D9	31-034	DOOR-ROLLER CURTAIN. SHIPBRD. HAND OR PWR OPER
EA	74-001	EDUCTOR-LIQUID
EB	49-001	CARBURETOR
EC	73-010	EJECTOR-GARBAGE AND TRASH DISPOSAL
ED	07-011	HEATER-FLUID
EE	88-031	VALVE-BUBBLER
EF	73-012	EJECTOR-SIGNAL
EG	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,ACA-MAGNETIC MINESWP PROP & AUX 4 CYC
EY	66-017	ENGINE-GASOLINE AIR OR FLUID COOLED
EZ	18-007	MOTOR GENERATOR
E0	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-VANEAXIAL AND/OR TUBEAXIAL
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	99-030	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	88-048	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
F0	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

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CDC	LAPL	
GA	45-003	GAGE-LIC ONTY 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	867	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 PROP SERVICE
GN	69-016	GEAR ASSEMBLY-SPEED DECREASER, AUX SERVICE
GO	GO-	GONIOMETERS (ELEX)
GP	GP-	GROUND RODS (ELEX)
GQ	851	BOILER FEEDWATER SYSTEM CONTROL FITTINGS
GR	23-008	SEMAPHORE-MECHANICAL SIGNAL
GS	43-044	GALLEY UNITS-COMPACT
GT	16-005	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
G0		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	HD-	ENVIRONMENTAL APPARATUS (ELEX)
HE	07-002	HEATER-FLUID, FUEL OIL AND LUBE OIL, STEAM HEATED
HF	07-003	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	07-006	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-ELECTRC HYDRAULIC & ELECTRO-MECHANICAL
HZ	58-004	HOIST-CHAIN ELECTRIC
H0	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	HONING MACHINE-HORIZONTAL OR VERTICAL
H7	38-010	HUMIDIFIER
H8	52-016	HYDRAULIC MECHANISM SEE ALSO MISSLE HNDG SYS-HYD
H9	31-033	HYDROFOIL 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)
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)
IQ	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
I0		NOT ASSIGNED
I1		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

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CDC	LAPL	
JD	J-	INTERFACE UNITS (ELEX)
JE	3.-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, LIQ/STM LVL, DIR OR REM
JO		NOT ASSIGNED
JP	38-016	INDICATOR-MECHANICAL TACHOMETER
JQ	38-020	INDICATOR-LIQ 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 NON-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
KO	31-011	TENSION UNIT-HYDRAULIC RAM
K1	27-009	INTERCOMMUNICATION STATION
K2	97-002	MAST-ANTENNA
K3	97-013	MAST-SNORKEL
K4	889	NUCLEAR POWER PLANT - COOLANT DISCHARGE SYSTEM VALVE
K5	85-035	JACK ASSEMBLY-HAND, SCREW, HYDRAULIC/PNEUMATIC OPR
K6	41-034	JOINTER-WOODWORKING
K7	27-010	TELEPHONE EQUIPMENT-DIAL
K8	43-008	KETTLE-STEAM JACKETED
K9	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 OFF MACH ACC
KT	41-015	DYNAMOMETER
KU	41-131	TANK-HOT DIP
KV	92-005	TANK-DIESEL ENGINE,AIR STARTING
KW	92-001	TANK-STORAGE

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
LQ	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	URNS -COFFEE
LZ	99-162	VALVE-SHEARING
L0	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-FLOW 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

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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 ROTAMETER
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, BORING
MX	MX-	MISCELLANEOUS EQUIPMENT (ELEX)
MY	41-038	MIXER-LIQUID, PORTABLE
MZ	43-004	MIXING MACHINE-ELECTRIC, FOOD AND FLUID
MO	28-031	SEXTANT, MARINE
M1	43-035	MOLDING MACHINES-MEAT, FISH
M2	C26	ANCHORING AND MOORING APPLIANCES
M3	41-088	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	61-065	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

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CDC	LAPL	
N1	C24	NAVIGATION EQUIPMENT AND ACCESSORIES
N2	28-027	NAVIGATION EQUIPMENT-PLOTTING SYS SEE ALSO PLTG TABLE
N3	28-026	NAVIGATION EQUIPMENT-DEAD RECKONING EQUIPMENT
N4	28-001	NAVIGATION PLOTTING BOARDS
N5	28-011	NAVIGATIONAL CLOCKS
N6	31-041	DOOR-HINGED-HAND OPERATED
N7	64-001	NOZZLE-FIRE HOSE SEE ALSO DAMAGE CONTROL ACC
N8	64-003	NOZZLE-MONITOR TYPE
N9	64-004	NOZZLE-WATER QUENCH
OA	OA-	MISCELLANEOUS GROUPS (ELEX)
OB	OB-	MULTIPLEXER AND/OR DEMULTIPLEXER GROUPS (ELEX)
OC	OC-	OCEANOGRAPHIC DEVICES (ELEX)
OD	OD-	INDICATOR GROUPS (ELEX/ORD)
OE	OE-	ANTENNA GROUPS (ELEX)
OF	OF-	ADAPTER GROUPS (ELEX)
OG	OG-	AMPLIFIER GROUPS (ELEX)
OH	OH-	SIMULATOR GROUPS (ELEX)
OI	O-	OSCILLATORS (ELEX)
OJ	OJ-	CONSOLES AND CONSOLE GROUPS (ELEX/ORD)
OK	OK-	CONTROL GROUPS (ELEX/ORD)
OL	OL-	DATA ANALYSIS AND DATA PROCESSING (ELEX)
OM	OM-	MODULATOR AND/OR DEMODULATOR GROUPS (ELEX)
ON	ON-	INTERCONNECTING GROUPS (ELEX)
OO		NOT ASSIGNED
OP	OP-	POWER SUPPLY GROUPS (ELEX/ORD)
OQ	OQ-	TEST SET GROUPS (ELEX)
OR	OR-	RECEIVER GROUPS (ELEX)
OS	OS-	OSCILLOSCOPE-TEST (ELEX)
OT	OT-	TRANSMITTER GROUPS (ELEX)
OU	OU-	CONVERTER GROUPS (ELEX)
OV	OV-	GENERATOR GROUPS (ELEX)
OW	OW-	TERMINAL GROUPS (ELEX)
OX	OX-	CODER, DECODER, INTERROGATOR, TRANSPONDER GROUPS (ELEX)
OY	OY-	RADAR SET GROUPS (ELEX/ORD)
OZ	OZ-	RADIO SET GROUPS (ELEX)
O0		NOT ASSIGNED
01	99-A01	NR-1 SUBMERSIBLE RESEARCH SHIP
02	99-A02	ATS-1, 2, 3 (UNITED KINGDOM)
03	99-A03	ORDNANCE FIRE CONTROL SWITCHING EQUIPMENT (HM&E/ORD)
04	99-A04	DEEP DIVING SUBMERGENCE SYSTEM
05	99-A05	OCEANOGRAPHIC COMPONENTS
06		TRANSCEIVER GROUPS
07		SONAR SET GROUPS
08	97-003	ANTENNA SYSTEM-FLOATING WIRE
09	97-004	ANTENNA SYSTEM-HELICAL, LOOP OR WHIP
PA	50-033	PANEL-REMOTE VALVE OPERATING
PB	88-203	VALVE-MIXING, REFRIGERATION, AIR CONDITIONING AND COOLING
PC	50-001	PANEL-FUSE
PD	PD-	PRIME DRIVERS (ELEX)
PE	50-005	PANEL-COMMUNICATION

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CDC	LAPL	
PE	PE-	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 CONTROL (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)
PQ	97-008	PERISCOPE-COLLIMATOR
PR	97-009	DEFLUMERS, 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	B48	PIPING SYSTEM HARDWARE
PY	41-091	PLANER-METAL CUTTING
PZ	97-010	PERISCOPE-SEXTANT
P0	11-009	POWER SUPPLY-AN/SQS-26 SONAR
P1	28-029	PLOTTING TABLE, MK NC2 MODO.2 & 3 SEE ALSO NAVIG EQ (HM&E/ORD)
P2	B36	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 OIL SYS ACC
QG	54-017	PROCESSING MACHINE-BLUE PRINT
QH	86-013	PROCESSING MACHINE-PHOTOGRAPHIC FILM
QI		NOT ASSIGNED
QJ	61-117	PROGRAM CONTROLLER
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
QQ	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	
QW	88-213	VALVE-OVERFLOW
QX	01-011	PUMP-CENTRIFUGAL, POWER DRIVEN
QY	32-023	REFRIGERATION-MECHANICAL
QZ	42-001	REGULATOR-ELECTRICAL (EXCPT 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-FLOW 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 (ELEX)
RD	RD-	RECORDER/REPRODUCERS (ELEX)
RE	RE-	RELAY ASSEMBLY UNITS (ELEX/ORD)
RF	RF-	RADIO FREQUENCY COMPONENTS (ELEX)
RG	RG-	CABLES, RF BULK-(ELEX)
RH	16-013	RECONDENSER SYSTER-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)
RM	41-084	CLEANING MACHINE-TANK
RN	55-003	REEL-HOSE
RO	RO-	RECORDERS (ELEX/ORD)
RP	RP-	REPRODUCERS (ELEX)
RQ	32-029	REFIGERATED 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-FLOW, BOILER FEED WATER
P0	88-253	VALVE-LINEAR DIRECTIONAL CONTROL WITH ACTUATOR
R1	42-102	REGULATOR-FLOW, FLOAT OPERATED, DRAIN/MAKE-UP VLV
R2	42-104	REGULATOR-PRESSURE OXYGEN SERVICE
P3	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

BEST AVAILABLE COPY

CDC	LAPL	
SD	67-008	SANITATION EQUIPMENT SEE ALSO TOILET-MARINE
SE	41-114	SAW-ABRASIVE-DISC, MASONRY
SF	41-115	SAW-BAND
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	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
S0	43-023	SINK-SCULLERY
S1	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, OIL 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-FOUNDRY
S9	43-052	SIFTING MACHINE-FLOUR, ELECTRIC
TA	TA-	TELEPHONE APPARATUS (ELEX)
TB	TB-	TOWED BODY (ELEX)
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
TQ	52-012	TANK-ACCUMULATOR, HYDRAULIC
TR	TR-	TRANSDUCERS (ELEX)
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 (ELEX)
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
TO	41-149	PUMP-AIRLESS SPRAY PAINT
T1	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	41-132	TEST EQUIPMENT-MISCELLANEOUS (HM&E/CRC)
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-RF (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
UO		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
V8	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, DOLLIES, 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 OR CONST CURR TRANSFORER 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 - ELECTRC - 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)
WZ	35-002	WIPER - WINDOW. PENDULUM TYPE. PNEUMATIC
W0		FIRING CUTOUT 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	IOTC 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	46-011	TRITIUM AIR MONITOR
YD	85-036	TROLLEY - MONORAIL AND BI-RAIL
YE	85-018	TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSO CARGO HNDL ACCY (HM&E/ORD)

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CDC	LAPL	
YF	41 .39	TUBE AND FLUE CLEANER - AIR MOTOR DRIVEN
.G	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 COMBUST ENGIN
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 SERV 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)
Y0	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	A00	ORDNANCE TOOLS AND ACCESSORIES (AEL/ORD)
Y7		WELDMENT
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 COOKER-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 TY P
ZK	60-003	STRNG GEAR-ELEC MCH,MRN,DRM&CBL/CBL&GC,GR&GC,HND OP TY
ZL	60-007	STEERING GEAR-ELECTRIC,STEER MOTOR-CHAIN DRIVE TYPE
ZM	ZM-	IMPEDANCE MEASURING DEVICES (ELEX)
ZN	60-008	STEERING GEAR-EMERGENCY SUBMERSIBLE TYPE
ZO		NOT ASSIGNED
ZP	61-027	STEERING HEAD-GYROPILOT
ZQ	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	DSRV 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 CODED
Z0	E24	MISCELLANEOUS FLAG ALLOWANCES, NAVIGATIONAL 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
0E		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	ORDALTS AND ORDNANCE MODIFICATIONS-OTHER THAN SWITCHBOARD
0S	RS	ORDALTS 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		VALVE-SCUPPER (INCL. DECK DRAIN VALVES)
1B	41-004	BOOTH-SPRAYING
1C	39-005	CLUTCH-FRICTION
1D	B37	PROPANE GAS AND CYLINDERS
1E		MACK
1F	14-007	FUSE UNIT ASS

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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 ELECTRIC 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 HORSEPOWER
1N	C32	FURNISHINGS AND OUTFITTINGS
1O		NOT ASSIGNED
1P	39-003	POWER 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		HEAD-SPRINKLER-FIRE PROTECTION
1V	88-004	VALVE-SAFETY RELIEF, MAIN PROPULSION BOILER
1W		NOT ASSIGNED
1X	52-014	CYLINDER-ACTUATING LINEAR SEE ALSO JACK ASSEMBLY/SHOCK AB
1Y	57-008	CRANE-ASROC MISSILE
1Z		NOT ASSIGNED
1O		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	99-008	BOX-ELECTRICAL (HM&E/CRD)
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 MOISTURE
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	RODMETER-UNDERWATER LOG SYSTEM
3S	32-020	SODA FOUNTAIN
3T	61-056	THRUSTER-MOTOR DRIVEN,HYDRAULICALLY OPERATED
3U	B58	DISTILLING PLANT ACCESSORIES
3V	16-016	VAPORIZER SYSTEM - LIQUID OXYGEN OR NITROGEN
3W	AN/ C	CARRIER
3X	C6-005	COMPRESSOR-RECIPROCATING, REFRIG, VERT OPR,SEMI-HERM
3Y	57-010	CRANE STERN
3Z	AN/ D	RADIAC
30	61-071	CONTROL-PHOTOELECTRIC CELL
31	61-078	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-SERVO, 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-MISSLE 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-DOOR,RAMP,STERNGATE & BRIDGE
4O		NOT ASSIGNED
4P	41-069	PRESS-GROMMET AND EYELET
4Q	AN/ K	TELEMETERING (ELEX/ORD)
4R	31-018	RUDDER-INCLUDING STOCKS, POSTS AND CARRIERS
4S	41-127	SOLDER AND DESOLDER UNIT-ELECTRIC
4T	61-005	TIMER
4U	AN/ L	COUNTERMEASURES
4V	43-014	VEGETABLE PEELING MACHINE - ELECTRIC
4W	AN/ M	METEOROLOGICAL
4X	C33	CLOTHING STANDARD OUTFIT, AIR PURIFICATION AND LIFE PRESERVERS
4Y	57-011	CRANE-HEAVY EQUIPMENT
4Z	01-019	PUMP CENTRIFUGAL, POWER DRIVEN, PERIPHERAL DESIGN
40	61-075	CONTROL-STEERING AND DIVING ASSEMBLY
41	61-062	CONTROL-PNEUMATIC
42	61-066	CONTROL-TELEMOTOR STEERING
43	61-089	CONTROL-SPLIT PLANE
44	61-132	CONTROL-FEED WATER SYSTEM
45	61-251	CONTROL- PRESSURE,TEMP,LEVEL AND FLOW
46	83-040	CONTROL-CONTROLLABLE PITCH PROPELLER
47	15-002	CONTROLLER/STARTER, AC
48	AN/ N	SOUND IN AIR
49	AN/ P	RADAR
5A	AN/ Q	SONAR AND UNDERWATER SOUND
5B	80-002	BRAKE-ELECTRIC, MOTOR OPERATED
5C	43-015	COFFEE MAKER
5D	31-017	DOOR-HINGED TYPE, POWER OPERATED
5E	AN/ R	RADIO
5F		FOUNDATION
5G	25-008	GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
5H	AN/ S	SPECIAL TYPES MAGNETIC, ETC., OR COMBINATIONS OF TYPES
5I		NOT ASSIGNED
5J	22-002	SWITCHBOARD-INTERIOR COMMUNICATION
5K		PLATFORM-SERVICE
5L		STRUCTURE-DECKHOUSE
5M	AN/ T	TELEPHONE (WIRE)
5N	28-009	OPTICAL NAVIGATIONAL AIDS ALSO SEE SPECIFIC EQPMT
5O		NOT ASSIGNED
5P	41-098	PRESS-HYDRAULIC, MANUAL OR POWER OPERATED
5Q	01-008	PUMP-ROTARY, POWER DRIVEN, INTERNAL GEAR DESIGN
5R	B21	HYDRAULIC SYSTEM TOOLS AND REPAIR PARTS
5S	41-126	SOLDERING AND BRAZING OUTFIT, ELECTRIC
5T		TRUNK-STRUCTURAL
5U	AN/ V	VISUAL AND VISIBLE LIGHT
5V	87-007	VENT, AIR - U/W LOG EQUIPMENT
5W	AN/ W	ARMAMENT (PECULIAR TO ARMAMENT, NOT OTHERWISE COVERED)
5X	01-021	PUMP-CENTRIFUGAL, TURBINE DRIVEN, GASOLINE SERVICE
5Y	57-013	CRANE-GANTRY
5Z	B62	PORTABLE STORAGE BATTERIES AND POWER DISTRIBUTION ACCESSORIES
50	AN/ X	FACSIMILE OR TELEVISION
51	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-PROPULSION
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	43-054	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	31-037	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,RETRCTBLE & NONRETRCTBLE
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	B20	WINCHES AND CAPSTANS REPAIR PARTS
92	78-011	COUPLING-RIGID, SHAFT
93	78-009	COUPLING-HYDRAULIC
94	78-012	COUPLING-CLAMP PIPE
95	78-013	COUPLING-ELECTRIC INDUCTION
96	93-018	COUPLING-HOSE,MISC SEE ALSO UNDWAY REPLEN ACC
97	57-001	CRANE-BRIDGE OR OVERHEAD TRAVELING
98	57-002	CRANE-QUARTER
99	57-003	CRANE-JIB

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