

DESIGN DATA SHEET 430-1

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GENERAL REQUIREMENTS FOR INTERIOR COMMUNICATION SYSTEMS



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22 February 1995

GENERAL REQUIREMENTS FOR INTERIOR COMMUNICATION SYSTEMS

1.1 Purpose: The purpose of this section is to provide the standard classifications of Interior Communication Systems. Changes to the classifications specified herein shall be approved by NAVSEA.

1.1 References: General Specifications for Ships of the United States Navy, Sections 426, 427, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438 and 439.

1.2 Classification of systems.

Systems shall be classified by importance, readiness, and designations as follows:

1.2.1 Importance

Vital systems (V) - Systems which, if disabled, would seriously impair the fighting effectiveness of the ship.

Semi-vital systems (SV) - Systems which, if disabled, would impair the fighting effectiveness of the ship to a lesser extent than would the loss of vital systems.

Non-vital systems (NV) - Systems which, if disabled, would not impair the fighting effectiveness of the ship.

1.2.2 Readiness

Class 1 systems - Systems which are essential to the safety of the ship and ship's personnel and are energized at all times.

Class 2 systems - Systems which, together with Class 1 systems, are essential to satisfactory ship control. Class 2 systems are energized when preparing to get underway, while underway, and until the ship is secured.

Class 3 systems - Systems which, together with Class 1 and Class 2 systems, are essential to complete interior control. Class 3 systems are energized during condition watches and ship operations.

Class 4 systems - Systems which are energized only when required. For surface ships, the readiness classification of each system shall be indicated on the interior communication switchboard information plates as follows:

- Class 1 - Yellow
- Class 2 - Black
- Class 3 - Red
- Class 4 - White

For Submarines the readiness classification of each system

22 February 1995

shall be indicated on the interior communication switchboard information plates as follows:

- Class 1 - Rectangle within hexagon
- Class 2 - Rectangle
- Class 3 - Circle
- Class 4 - Triangle

1.2.3 Designations

Interior communication systems shall be identified by circuit designations. Circuit designations for interior communication systems shall consist of single or double letters, and may be prefixed with single or double numbers (i.e. A, AV, 1AV). Interior communication systems which have several individual circuits shall have these individual circuits identified by single or double numbers prefixed or suffixed to the circuit designations of the system (i.e. AV, 4AV, 4AV1). Systems which are auxiliary or supplementary to primary circuits have the letter "X" prefixed to their circuit designation. Root circuits shall be identified within this document (shaded) and in the General Specifications for Ships of the US Navy. Sub-circuits shall be identified by the root circuit designation followed by a suffix (i.e. 1AV1, 4AV1) to indicate port or starboard, forward or aft. Sub-circuits shall be identified by the root circuit designation preceded by a prefix (i.e. 1AV, 2AV, 3AV) to indicate related circuits.

22 February 1995

1.3 List of systems

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
A	CALL SIGNAL SYSTEM	NV	2	437
AD	DRY AIR DEW POINT ALARM SYSTEM	NV	2	436
1AD	SHIP SERVICE DRY AIR DEHYDRATED DEW POINT ALARM SYSTEM	SV	2	
2AD	AN/SPS-49 DEHYDRATED DEW POINT ALARM SYSTEM	SV	2	
3AD	RADIO DRY AIR PANEL DEW POINT ALARM SYSTEM	SV	2	
4AD	DRY DECK SHELTER OXYGEN HUMIDITY INDICATION AND ALARM	NV	2	
5AD	SATCOM RADIO DRY AIR ALARM SYSTEM	NV	2	
AE	EMERGENCY WASH ALARM SYSTEM	NV	2	436
AH	HUMIDITY ALARM SYSTEM	NV	2	436
1AH	AN/SLQ-17 RADOME HUMIDITY ALARM SYSTEM	NV	1	
2AH	SATCOM RADIO HUMIDITY ALARM SYSTEM	NV	2	
1AN	INTEGRATED SURVIVABILITY MANAGEMENT SYSTEM (ISMS) AREA NETWORK	V	1	
AT	TRITIUM AIR MONITORING SYSTEM	SV	1	437
AV	HAZARDOUS GAS ALARM SYSTEM	SV	1	436
1AV	TOXIC VAPOR ALARM SYSTEM	SV	2	
2AV	HARPOON FUEL LEAK ALARM SYSTEM	SV	2	
3AV (SUBMARINE)	CAMS	V	1	
3AV	HYDROGEN SULFIDE ALARM SYSTEM	SV	1	
4AV	HAZARDOUS AIR ALARM SYSTEM	SV	2	
4AV1	CHEMICAL WARFARE DIRECTIONAL DETECTOR SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
5AV	HALO CARBON GAS ALARM SYSTEM	NV	1	
6AV	PROPANE GAS ALARM SYSTEM	NV	1	
7AV	SULFUR DIOXIDE ALARM SYSTEM	SV	2	
B	MAGNETIC DOOR LOCK AND SIGNAL SYSTEM	NV	1	437
BC	COMBUSTION CONTROL SYSTEM	SV	1	437
BF	BOILER FAILURE ALARM SYSTEM	SV	1	436
BH	ANCHOR HOUSED INDICATOR SYSTEM	NV	1	437
BS	BATTLE SHORT ALARM SYSTEM	NV	4	436
BW	CATAPULT SAFETY INDICATOR SYSTEM	NV	1	437
BZ	BRIG CELL DOOR ALARM AND LOCK OPERATING SYSTEM	NV	4	436
CA	COLLISION AVOIDANCE DISPLAY SYSTEM			429
CB	SATELLITE COMBINER-DEMULATOR FAULT ALARM SYSTEM	NV	1	436
CE	MASTER CLOCK	NV	1	437
CK	INTERPHONE SYSTEM	SV	2	433
1CK	RCC INTERPHONE SYSTEM	SV	2	
2CK	COMMAND AND CONTROL INTERPHONE SYSTEM	SV	2	
3CK	CATCC INTERPHONE SYSTEM	SV	2	
4CK	AMPHIBIOUS COMMAND AND CONTROL INTERPHONE SYSTEM	SV	2	
5CK	CONTROL AND OPERATIONS INTERPHONE SYSTEM	SV	1	
9CK	AVIATION MAINTENANCE COMMUNICATION SYSTEM	NV	2	
CM	WASHDOWN COUNTERMEASURES INDICATOR SYSTEM	SV	1	437
CP	AIR COMPRESSOR FAILURE ALARM SYSTEM	SV	2	436

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
CR	VIBRATION REDUCER EFFECTIVENESS MONITORING SYSTEM	SV	2	437
CS	INTEGRATED VOICE COMMUNICATIONS TELEPHONE SYSTEM	V	1	432
CX	REFRIGERATOR FAILURE ALARM SYSTEM	NV	1	436
1CX	BIOLOGICAL LAB AND PHARMACY REFRIGERATION FAILURE ALARM SYSTEM	NV	1	
2CX	SHIP STORES REFRIGERATION AND A/C COMPRESSOR FAILURE ALARM SYSTEM	NV	1	
3CX	MORGUE REFRIGERATION FAILURE ALARM SYSTEM	NV	4	
DA	DOOR POSITION ALARM SYSTEM	SV	2	436
1DA	WELL DECK ACCESS DOOR POSITION ALARM SYSTEM	SV	2	
2DA	PERISCOPE WELL ACCESS DOOR POSITION ALARM SYSTEM	V	2	
DB	DEEP DEPTH ALARM SYSTEM	V	2	436
1DB	DEPTH INDICATOR SYSTEM	V	2	437
2DB	RATE OF DEPTH CHANGE AND VERT ACCELERATION TRANS SYSTEM	NV	2	
DC	DEPTH CONTROL SYSTEM	V	2	437
3DC	DEPTH CONTROL SYSTEM	V	2	
DG	REMOTE DRAFT INDICATOR SYSTEM	NV	2	437
DJ	ICING CONDITION DETECTOR ALARM SYSTEM	V	4	436
DL	INTRUSION ALARM SYSTEM	SV	1	436
1DL	COMMUNICATION CENTER INTRUSION ALARM SYSTEM	SV	1	
2DL	SHIP STORE INTRUSION ALARM SYSTEM	NV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
3DL	SONAR CONTROL ROOM INTRUSION ALARM SYSTEM	NV	1	
4DL	CIC INTRUSION ALARM SYSTEM	NV	1	
5DL	COMPUTER ROOM INTRUSION ALARM SYSTEM	NV	1	
6DL	ARMORY INTRUSION ALARM SYSTEM	NV	1	
9DL	OUTBOARD ACCESS INTRUSION ALARM SYSTEM	NV	1	
10DL	COMBAT SYSTEM MAINTENANCE CENTRAL INTRUSION ALARM SYSTEM	NV	1	
11DL	DISBURSING OFFICE INTRUSION ALARM SYSTEM	NV	1	
12DL	TFCC INTRUSION ALARM SYSTEM	NV	1	
13DL	TORPEDO ROOM INTRUSION ALARM SYSTEM	NV	1	
14DL	METEOROLOGICAL ROOM INTRUSION ALARM	NV	1	
17DL	EXPLOSIVE DESTRUCTOR MAGAZINE INTRUSION ALARM SYSTEM	NV	1	
18DL	SMALL ARMS MAGAZINE INTRUSION ALARM	NV	1	
DM	DEMULTIPLEXER FAULT ALARM SYSTEM	NV	1	436
1DM	DATA MULTIPLEX SYSTEM	V	1	439
2DM	DAMAGE CONTROL MONITORING SYSTEM (TWARSES)	V	1	
DT	DANGEROUS TEST UNDERWAY (JET ENGINE)	NV	2	436
DW	WRONG DIRECTION ALARM SYSTEM	V	2	436
E	SOUND POWERED TELEPHONE CALL SYSTEM	SV	1	432
EA	FIREROOM EMERGENCY SIGNAL SYSTEM	NV	1	436

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
EB	PURIFIER MALFUNCTION AND BREAKOVER ALARM SYSTEM	SV	1	436
EC	LUBRICATING OIL LOW PRESSURE ALARM SYSTEM	SV	1	436
1EC	PROPULSION MACHINERY LUBRICATING OIL LOW PRESSURE ALARM SYSTEM	SV	2	
2EC	AUXILIARY MACHINERY LUBRICATING OIL LOW PRESSURE ALARM SYSTEM	SV	2	
3EC	CP PROPELLER LUBRICATING OIL LOW PRESSURE INDICATOR AND ALARM SYSTEM	SV	1	
5EC	FORCED DRAFT BLOWER LUBRICATING OIL LOW PRESSURE ALARM SYSTEM	SV	2	
6EC	LUBRICATING OIL STRAINER HIGH DIFFERENTIAL PRESSURE ALARM SYSTEM	SV	2	
7EC	MAIN FEED PUMP LUBRICATING OIL LOW PRESSURE ALARM SYSTEM	SV	2	
13EC	COMPRESSOR LUBRICATING OIL LOW PRESSURE ALARM SYSTEM	NV	2	
ED	AIR TEMPERATURE ALARM SYSTEM	SV	2	436
1ED	GENERATOR AIR HIGH TEMPERATURE ALARM SYSTEM	SV	1	
1ED2	GENERATOR INLET HIGH TEMPERATURE ALARM SYSTEM	SV	1	
1ED3	GENERATOR ENCLOSURE HIGH TEMPERATURE ALARM SYSTEM	SV	1	
2ED	OXYGEN-NITROGEN GENERATOR PLANT LOW TEMP ALARM SYSTEM	NV	1	
5ED	DEBALLAST AIR COMPRESSOR HIGH TEMPERATURE ALARM SYSTEM	SV	1	
7ED	FREQUENCY CONVERTER HIGH AIR TEMPERATURE SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
8ED	DEHYDRATOR HIGH TEMPERATURE SYSTEM	NV	2	
9ED	COMPRESSOR DISCHARGE HIGH AIR TEMPERATURE ALARM SYSTEM	NV	2	
10ED	EFFLUENT HIGH TEMPERATURE ALARM SYSTEM	NV	1	
EF	BEARING HIGH TEMPERATURE ALARM SYSTEM	SV	1	436
1EF	GENERATOR BEARING HIGH TEMPERATURE ALARM SYSTEM	SV	1	
2EF	BEARING LUBRICATING OIL HIGH TEMPERATURE ALARM SYSTEM	NV	2	
3EF	PUMP BEARING HIGH TEMPERATURE ALARM SYSTEM	SV	2	
EG	PROPELLER PITCH CONTROL, HYDRAULIC OIL SYSTEM LOW PRESSURE ALARM SYSTEM	SV	2	436
EH	FUEL TEMPERATURE ALARM SYSTEM	SV	1	436
EJ	FEED PRESSURE ALARM SYSTEM	SV	1	436
EK	AIR PRESSURE ALARM SYSTEM	NV	1	436
1EK	PNEUMATIC CONTROL AIR PRESSURE ALARM SYSTEM	NV	1	
3EK	CATAPULT SYSTEM CUTOFF AND ALARM SYSTEM	NV	2	
6EK	QUICK CLOSE STEAM DUMP STOP VALVE ACTUATE AIR LOW PRESS ALARM	NV	2	
7EK	AIR LOCK SYSTEM PROPELLER PLT	NV	2	
8EK	VITAL DEHYDRATOR MAIN DRY AIR LOW PRESSURE ALARM SYSTEM	SV	2	
10EK	LOW DUCT PRESSURE ALARM SYSTEM	SV	1	
11EK	BLEED AIR LOW PRESSURE ALARM SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
12EK	CPS LOW PRESSURE ALARM SYSTEM	NV	1	
13EK	PRAIRIE AIR LOW PRESSURE ALARM SYSTEM	SV	2	
14EK	BOILER N(2) BLANKET LOW PRESSURE ALARM SYSTEM	SV	2	
EL	ELECTRONIC COOLING WATER FLOW ALARM SYSTEM	SV	2	436
1EL	RADAR COOLING WATER TEMPERATURE AND FLOW ALARM SYSTEM	SV	1	
4EL	SONAR STATIC DISSIPATOR COOLING WATER SUMMARY FAULT ALARM SYSTEM	NV	1	
5EL	SONAR DOME WATER FLOW ALARM AND INDICATOR SYSTEM	NV	1	
6EL	CIWS COOLING WATER FLOW ALARM SYSTEM	SV	1	
7EL	MG SET COOLING LINE DIFFERENTIAL PRESSURE, TEMPERATURE AND FLOW ALARM SYSTEM	SV	2	
8EL	FREQUENCY CHANGER COOLING TEMPERATURE AND FLOW ALARM SYSTEM	SV	2	
9EL	MOTOR GENERATOR AIR TEMP AND COOLING WATER FLOW ALARM SYSTEM	SV	2	
10EL	AEgis COOLING WATER SUMMARY FAULT ALARM SYSTEM	NV	1	
11EL	A/C CHILL WATER LOW FLOW AND PLANT SHUT DOWN ALARM SYSTEM	SV	1	
12EL	INDUCTION BRAZING COOLING HIGH TEMP AND LOW FLOW ALARM SYSTEM	NV	4	
13EL	DATA RECORDING SYSTEM COOLING ALARM	SV	1	
14EL	A/C PLANT COOLING WATER ALARM SYSTEM	NV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
15EL	ASROC HEATING AND COOLING ALARM SYSTEM	SV	1	
16EL	AN/UYA-4 COOLING LINE TEMPERATURE AND FLOW ALARM SYSTEM	SV	1	
17EL	COMPRESSOR COOLING WATER HIGH TEMPERATURE ALARM SYSTEM	NV	2	
18EL	STERN TUBE SHAFT SEAL COOLING WATER LOW FLOW ALARM	SV	2	
20EL	HEAT EXCHANGER COOLANT FLOW ALARM	SV	2	
21EL	NSSMS COOLING WATER ALARM SYSTEM	SV	2	
22EL	SATCOM COOLING WATER ALARM SYSTEM	SV	2	
EM	SOUND POWERED TELEPHONE SIGNAL SYSTEM	SV	1	432
EP	LUBRICATING OIL HIGH TEMPERATURE ALARM SYSTEM	SV	2	436
1EP	PROPULSION MACHINERY LUBRICATING OIL HIGH TEMPERATURE ALARM SYSTEM	SV	2	
2EP	AUXILIARY MACHINERY LUBRICATING OIL HIGH TEMP INDICATOR AND ALARM SYSTEM	SV	1	
EQ	STEAM TEMPERATURE ALARM SYSTEM	SV	2	436
1EQ	DESUPERHEATER HIGH TEMPERATURE ALARM SYSTEM	SV	1	
2EQ	CATAPULT STEAM TROUGH HIGH TEMPERATURE ALARM SYSTEM	SV	2	
3EQ	MAIN CONDENSER HIGH TEMPERATURE ALARM SYSTEM	SV	2	
4EQ	ATOMIZING STEAM LOW TEMPERATURE ALARM SYSTEM	SV	2	
EU	WATER PRESSURE ALARM SYSTEM	SV	2	436

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
1EU	SONAR DOME WATER PRESSURE ALARM SYSTEM	SV	1	
4EU	A/C ZONE () CHILLED WATER LOW PRESSURE ALARM SYSTEM	SV	1	
EW	CIRCULATING WATER TEMPERATURE ALARM SYSTEM	SV	2	436
1EW	PROPULSION ENGINE CIRCULATING WATER HIGH TEMPERATURE ALARM SYSTEM	SV	1	
2EW	AUXILIARY MACHINERY CIRCULATING WATER HIGH TEMPERATURE ALARM SYSTEM	SV	1	
3EW	DISTILLING FEEDWATER TEMPERATURE INDICATING AND ALARM SYSTEM	SV	2	
4EW	CHILLED WATER HIGH TEMPERATURE ALARM SYSTEM	SV	2	
5EW	DISTILLATE LOW TEMPERATURE ALARM SYSTEM	SV	2	
EZ	VACUUM ALARM SYSTEM	SV	2	436
1EZ	PROPULSION MACHINERY VACUUM ALARM SYSTEM	SV	2	
2EZ	CONDENSER VACUUM ALARM SYSTEM	SV	2	
F	HIGH TEMPERATURE ALARM SYSTEM	SV	1	436
1F	GAS TURBINE MODULE FIRE ALARM SYSTEM	V	1	
2F	PROJECTION PLOTTING UNIT HIGH TEMPERATURE ALARM SYSTEM	SV	4	
4F	COMBUSTION GAS AND SMOKE DETECTION ALARM SYSTEM	SV	1	
7F	400Hz M/G ROOM HIGH TEMPERATURE ALARM SYSTEM	SV	1	
8F	RADOME HIGH TEMPERATURE ALARM SYSTEM	SV	1	
9F	ASROC LAUNCHER HIGH TEMPERATURE ALARM SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
10F	TORPEDO TUBE HIGH TEMPERATURE ALARM SYSTEM	SV	1	
11F	FBM STORAGE AREA TEMPERATURE AND HUMIDITY ALARM SYSTEM	SV	1	
16F	STEAM SMOTHERING AND VENT EXHAUST HIGH TEMPERATURE ALARM AND PERSONNEL WARNING SYSTEM	SV	1	
17F	FLMB LIQUIDS STORAGE HIGH TEMPERATURE ALARM SYSTEM	SV	1	
21F	SOLID STATE FREQUENCY CHANGER HIGH TEMPERATURE ALARM SYSTEM	SV	1	
23F	RAM MISSILE OVER TEMPERATURE ALARM SYSTEM	SV	1	
FA	PERSON TRAPPED IN REFRIGERATOR ALARM SYSTEM	NV	1	436
FD	FLOODING ALARM SYSTEM	SV	1	436
1FD	WET BILGE LIQUID LEVEL ALARM SYSTEM	NV	1	
3FD	ACCESS HATCH WATER INDICATING SYSTEM	SV	4	
6FD	PERISCOPE WELL FLOODING ALARM SYSTEM	SV	1	
7FD	SONAR SPHERE FLOODING ALARM SYSTEM	NV	1	
8FD	PUMP ROOM BILGE FLOODING ALARM SYSTEM	NV	1	
9FD	SONAR TRUNK BILGE FLOODING ALARM SYSTEM	NV	1	
10FD	SEWAGE COMPARTMENT FLOODING ALARM SYSTEM	NV	1	
11FD	DECK AND BILGE LIQUID LEVEL FLOODING ALARM SYSTEM	SV	1	
12FD	SHORE CONNECTION TRUNK FLOODING ALARM SYSTEM	NV	1	
13FD	VLS MODULES FLOODING ALARM SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
14FD	MAGAZINE FLOODING ALARM SYSTEM	SV	1	
15FD	WELL DECK SUMP FLOODING ALARM SYSTEM	NV	2	
FH	SPRINKLING ALARM SYSTEM	SV	1	436
1FH	DELUGE RELEASE ALARM SYSTEM	SV	2	
FL	FLIGHT DECK LANDING AREA STATUS LIGHT SIGNAL SYSTEM	NV	2	437
FP	FIRE PUMP STATUS LIGHT SIGNAL SYSTEM	SV	1	437
FR	FIRE SUPPRESSION ALARM SYSTEMS	SV	1	436
1FR	CARBON DIOXIDE RELEASE ALARM SYSTEM	NV	1	
2FR	HALON RELEASE ALARM SYSTEM	NV	1	
3FR	APC RELEASE AND LOW PRESSURE ALARM SYSTEM	NV	1	
FS	FLIGHT DECK READY LIGHT SYSTEM	NV	2	437
FX	ARREST GEAR AND FRESNEL LENS OPTICAL LANDING CROSSCHECK SYSTEM	SV	2	437
FZ	SECURITY ALARM SYSTEM	V	1	436
GB	CIRCUIT BREAKER ALARM SYSTEM	NV	2	436
1GB	MOTOR GENERATOR CIRCUIT BREAKER ALARM SYSTEM	NV	2	
2GB	STEERING GEAR CIRCUIT BREAKER OPEN AND MOTOR OVERLOAD ALARM SYSTEM	NV	2	
HA	STEERING GEAR HYDRAULIC PLANT HIGH TEMPERATURE AND HYDRAULIC SERVICE TANK LOW LEVEL INDICATOR SYSTEM	V	1	437
1HA	HYDRAULIC ACCUMULATOR CONTENT INDICATOR SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
2HA	HYDRAULIC OIL HIGH TEMPERATURE INDICATOR SYSTEM	SV	2	
3HA	FLOOD CONTROL HYDRAULIC ACCUMULATOR CHARGED INDICATOR SYSTEM	V	2	437
HB	ANCHOR ORDER SYSTEM	NV	2	437
HD/HE	WIND DIRECTION AND SPEED INDICATOR AND ALARM SYSTEM	SV	1	437
HF	AIR FLOW INDICATOR AND ALARM SYSTEM	NV	1	437
1HF	PAINT MIXING AND ISSUE STOREROOM AIR FLOW IND AND ALARM SYS	NV	1	
2HF	FLAMMABLE LIQUID STOREROOM AIR FLOW INDICATOR AND ALARM SYSTEM	NV	1	
3HF	FLAMMABLE GAS CYLINDER STOREROOM AIR FLOW IND AND ALARM SYSTEM	NV	1	
4HF	FLAMMABLE LIQUID ISSUE ROOM AIR FLOW INDICATOR AND ALARM SYSTEM	NV	1	
5HF	CHT EQUIPMENT ROOM AIR FLOW IND AND ALARM SYSTEM	NV	1	
6HF	INTERNAL COMBUSTION ENGINE (ICE) SHOP AIR FLOW INDICATOR AND ALARM SYSTEM	NV	1	
7HF	BATTERY SHOP AIR FLOW INDICATOR AND ALARM SYSTEM	NV	1	
8HF	COMPUTER ROOM AIR FLOW INDICATOR AND ALARM SYSTEM	NV	1	
HG	BATTERY AIR FLOW INDICATOR SYSTEM	NV	1	437
HP	HYDRAULIC FLUID LOW PRESSURE ALARM AND INDICATOR SYSTEM	SV	2	437

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
HS	HANGAR FOAM SPRINKLER INDICATOR SYSTEM	SV	2	437
HV	AIR VENT LOUVER/VANE POSITION INDICATOR SYSTEM	NV	2	437
HY	HYDROGEN DETECTOR SYSTEM	SV	1	436
1IN	INTEGRATED NAVIGATION SENSOR SYSTEM	V	1	429
2IN	INTEGRATED NAVIGATION SENSOR SYSTEM (FIBER OPTIC)	V	1	429
J	DIAL TELEPHONE SYSTEM	SV	1	432
2J	AVIATION MAINTENANCE DIAL TELEPHONE SYSTEM	SV	1	432
JA	CAPTAIN'S BATTLE CIRCUIT	V	1	432
JB	BRIG GUARD SECURITY CIRCUIT	SV	1	432
JC	WEAPONS CONTROL CIRCUIT	V	1	432
JF	FLAG OFFICER'S CIRCUIT	V	1	432
1JG	AIRCRAFT CONTROL CIRCUIT	V	1	432
2JG	AIRCRAFT INFORMATION CIRCUIT	V	1	432
2JG1	AIRCRAFT STRIKE REQUIREMENTS AND COORDINATION CIRCUIT	V	1	432
2JG2	AIRCRAFT STRIKE REQUIREMENT AND REPORTING CIRCUIT	V	1	432
2JG3	AIRCRAFT INFORMATION CIRCUIT CATCC DIRECT LINE	V	1	432
3JG	AIRCRAFT SERVICE CIRCUIT	V	1	432
4JG1	AVIATION AND VEHICULAR FUEL CONTROL CIRCUIT	V	1	432
4JG2	AVIATION FUELING CIRCUIT FORWARD	V	1	432
4JG3	AVIATION FUELING CIRCUIT AFT	V	1	432
5JG1	AVIATION ORDNANCE CIRCUIT	V	1	432
5JG2	AVIATION MISSILE CIRCUIT	V	1	432

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
6JG	ARRESTING GEAR AND BARRICADE CONTROL CIRCUIT	V	1	432
9JG	AIRCRAFT HANDLING CIRCUIT	V	1	432
10JG	AIRBORNE AIRCRAFT INFORMATION CIRCUIT	V	1	432
11JG	OPTICAL LANDING SYSTEM CONTROL CIRCUIT	V	1	432
JH	SWITCHBOARD CROSS CONNECTING CIRCUIT	V	1	432
JL	LOOKOUTS CIRCUIT	V	1	432
JM	MINE CONTROL CIRCUIT	V	1	432
JO	SWITCHBOARD OPERATORS' CIRCUIT	V	1	432
5JP	CIWS CONTROL CIRCUIT	V	1	432
6JP	TORPEDO CONTROL CIRCUIT	V	1	432
8JP	ASW WEAPON CONTROL CIRCUIT	V	1	432
9JP	ROCKET BATTERY CONTROL CIRCUIT	V	1	432
10JP	GUIDED MISSILE LAUNCHER CONTROL CIRCUIT	V	1	432
11JP	FBM CHECKOUT AND CONTROL CIRCUIT	V	1	432
13JP	.50 CALIBER/25MM MACHINE GUN CONTROL CIRCUIT	V	1	432
14JP	SURFACE-TO-SURFACE WEAPON SYSTEM CIRCUIT	V	1	432
JR	DEBARKATION CONTROL CIRCUIT	V	1	432
JS	PLOTTERS' TRANSFER SWITCHBOARD CIRCUIT	V	1	432
1JS	CIC INFORMATION CIRCUIT	V	1	432
2JS	TACTICAL DATA COORDINATION CIRCUIT	V	1	432
3JS	TACTICAL DATA COORDINATION CIRCUIT	V	1	432
4JS	TACTICAL DATA COORDINATION CIRCUIT	V	1	432

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
20JS1	EVALUATED RADAR INFORMATION CIRCUIT	V	1	432
20JS2	EVALUATOR'S CIRCUIT	V	1	432
20JS3	RADAR CONTROL OFFICERS' CIRCUIT	V	1	432
20JS4	WEAPONS LIAISON OFFICERS CIRCUIT	V	1	432
21JS	SURFACE SEARCH RADAR CIRCUIT	V	1	432
22JS	AIR SEARCH RADAR CIRCUIT	V	1	432
61JS	SONAR AND LAMPS INFORMATION CIRCUIT	V	1	432
80JS	ECM PLOTTERS' CIRCUIT	V	1	432
81JS	ELECTRONIC WARFARE INFORMATION CIRCUIT	V	1	432
82JS	SUPPLEMENTARY RADIO CIRCUIT	V	1	432
83JS	TORPEDO COUNTERMEASURES CIRCUIT	V	1	432
85JS	SSES CONTROL CIRCUIT	V	1	432
1JV	MANEUVERING AND DOCKING CIRCUIT	V	1	432
2JV	ENGINEER'S CIRCUIT (ENGINES)	V	1	432
3JV	ENGINEER'S CIRCUIT (BOILER)	V	1	432
4JV	ENGINEER'S CIRCUIT (FUEL AND STABILITY)	V	1	432
5JV	ENGINEER'S CIRCUIT (ELECTRICAL)	V	1	432
6JV	BALLAST CONTROL CIRCUIT	V	1	432
JW	SHIP CONTROL BEARING CIRCUIT	V	1	432
JX	RADIO AND SIGNALS CIRCUIT	V	1	432
2JX	SECURE COMMUNICATIONS CIRCUIT	V	1	432
2JZ	DAMAGE AND STABILITY CONTROL CIRCUIT	V	1	432

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
3JZ	MAIN DECK REPAIR CIRCUIT	V	1	432
4JZ	FORWARD REPAIR CIRCUIT	V	1	432
5JZ	AFTER REPAIR CIRCUIT	V	1	432
6JZ	MIDSHIPS REPAIR CIRCUIT	V	1	432
7JZ	PROPULSION REPAIR CIRCUIT	V	1	432
8JZ	CRASH AND SALVAGE REPAIR TEAM CIRCUIT	V	1	432
9JZ	MAGAZINE SPRINKLING AND ORDNANCE REPAIR CIRCUIT FORWARD	V	1	432
10JZ	MAGAZINE SPRINKLING AND ORDNANCE REPAIR CIRCUIT AFT	V	1	432
11JZ	GALLERY DECK AND ISLAND STRUCTURE REPAIR CIRCUIT	V	1	432
12JZ	COMBAT SYSTEM CASUALTY COORDINATION CIRCUIT	V	1	432
12JZ1	CSOSS SUPERVISOR'S MANAGEMENT CIRCUIT	V	1	432
12JZ2	CSOSS SUPPORT SERVICES READINESS CIRCUIT	V	1	432
12JZ3	CSOSS RADAR READINESS CIRCUIT	V	1	432
12JZ4	CSOSS DATA PROCESSING READINESS CIRCUIT	V	1	432
12JZ5	CSOSS WEAPONS READINESS CIRCUIT	V	1	432
12JZ6	CSOSS EXTERIOR COMMUNICATIONS READINESS CIRCUIT	V	1	432
13JZ	BATTLE DRESSING COORDINATION CIRCUIT	V	1	432
K	PROPELLER REVOLUTION INDICATOR SYSTEM	NV	2	437
K (SUBMARINES)	PROPELLER SHAFT TORQUE AND REVOLUTION INDICATOR SYSTEM	NV	2	437
KJ	SHAFT TURNING GEAR INDICATOR SYSTEM	SV	1	437

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
KM	ENGINE REVOLUTION INDICATOR SYSTEM	NV	1	437
L	RUDDER ORDER SYSTEM	V	2	437
LB	STEERING EMERGENCY SIGNAL SYSTEM	V	2	436
LC	GYROCOMPASS SYSTEM	V	2	426
LF	LOW FEEDWATER FLOW ALARM SYSTEM	SV	2	436
LN	INERTIAL NAVIGATION SYSTEM	V	2	427
LV	SHIP AIRCRAFT INERTIAL AUTOMATIC NAVIGATOR ALIGNMENT SYSTEM	SV	3	427
LY	OWN SHIPS MOTION SIMULATOR SYSTEM	NV	4	426
M	PROPELLER ORDER SYSTEM	NV	2	437
MB	ENGINE OR MOTOR ORDER SYSTEM	V	2	437
1MB	STBD ENGINE OR MOTOR ORDER SYSTEM	V	2	437
2MB	PORT ENGINE ORDER OR MOTOR ORDER SYSTEM	V	2	437
MC	SUBMARINE INTEGRATED ANNOUNCING SYSTEM	V	1	433
1MC	GENERAL ANNOUNCING SYSTEM	V	1	433
2MC	MACHINERY CONTROL ANNOUNCING SYSTEM	V	1	433
2MC (SUBMARINE)	PROPULSION PLANT ANNOUNCING	V	1	433
3MC	AVIATORS OR TROOP ANNOUNCING SYSTEM	V	1	433
4MC	DAMAGE CONTROL ANNOUNCING SYSTEM	V	1	433
4MC (SUBMARINE)	EMERGENCY REPORT ANNOUNCING	V	2	433
5MC	FLIGHT DECK ANNOUNCING SYSTEM	V	1	433

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
6MC	INTERSHIP ANNOUNCING SYSTEM	V	1	433
7MC	SUBMARINE CONTROL ANNOUNCING	V	1	433
9MC	AVIATION MAINTENANCE ANNOUNCING SYSTEM	SV	2	433
12MC	COMMUNICATIONS FOR SECURE SPACES	SV	1	433
18MC	BRIDGE ANNOUNCING SYSTEM	NV	2	433
19MC	AVIATION CONTROL ANNOUNCING SYSTEM	SV	2	433
21MC	CAPTAIN'S COMMAND ANNOUNCING SYSTEM	SV	1	433
22MC	ELECTRONIC CONTROL ANNOUNCING SYSTEM	SV	1	433
23MC	ELECTRICAL CONTROL ANNOUNCING SYSTEM	SV	1	433
24MC	FLAG COMMAND ANNOUNCING SYSTEM	SV	1	433
26MC	MACHINERY CONTROL ANNOUNCING SYSTEM	SV	1	433
27MC	SONAR AND RADAR CONTROL ANNOUNCING SYSTEM	SV	1	433
29MC	SONAR CONTROL AND INFORMATION ANNOUNCING SYSTEM	SV	2	433
30MC1	SPECIAL WEAPONS CONTROL ANNOUNCING SYSTEM NO. 1	SV	2	433
30MC2	SPECIAL WEAPONS CONTROL ANNOUNCING SYSTEM NO. 2	SV	2	433
31MC	ESCAPE TRUNK ANNOUNCING SYSTEM	SV	2	433
32MC	WEAPONS CONTROL ANNOUNCING SYSTEM	SV	3	433
39MC	CARGO CONTROL ANNOUNCING SYSTEM	NV	4	433
40MC	FLAG ADMINISTRATIVE ANNOUNCING SYSTEM	NV	1	433

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
42MC	CIC COORDINATION ANNOUNCING SYSTEM	SV	2	433
46MC	AVIATION WEAPONS MOVEMENT CONTROL ANNOUNCING SYSTEM	SV	2	433
50MC	INTEGRATED OPERATIONAL INTELLIGENCE CENTER (IOIC) ANNOUNCING SYSTEM	SV	2	433
54MC	REPAIR OFFICER'S CONTROL ANNOUNCING SYSTEM	NV	4	433
70MC	REPLENISHMENT ANNOUNCING SYSTEM	NV	4	433
74MC	TAO ANNOUNCING SYSTEM	SV	2	433
75MC	DECONTAMINATION STATION ANNOUNCING SYSTEM	NV	1	433
MD	MAN ALOFT ANTENNA DISABLEMENT INDICATOR SYSTEM	NV	4	437
ME	OIL BURNER ORDER SYSTEM	NV	2	437
MG	OVERSPEED TRIP AND GOVERNOR FAULT ALARM SYSTEM	SV	1	436
1MG	GAS TURBINE TRIP ALARM SYSTEM	SV	1	
2MG	FEED PUMP OVERSPEED TRIP ALARM SYSTEM	SV	2	
3MG	FIRE PUMP OVERSPEED TRIP ALARM SYSTEM	SV	2	
4MG	SHIP STEAM TURBINE GENERATOR GOVERNOR FAULT ALARM	SV	2	
MJ	MULTIPLE TALKING AND SELECTIVE RINGING SYSTEM	V	1	432
ML	MAST POSITION INDICATOR SYSTEM	V	2	437
1ML	SUBMARINE SNORKEL MAST POSITION INDICATOR SYSTEM	SV	1	437
2ML	ELECTRONIC MAST POSITION INDICATOR SYSTEM	SV	1	437
3ML	HYDROPHONE POSITION INDICATOR SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
MS	REMOTE SWITCHING CONTROL SYSTEM	V	2	437
1MS	REMOTE PROPULSION CONTROL SWITCHING SYSTEM	NV	2	
2MS	REMOTE SWITCHING CONTROL (PILOT HOUSE TO REMOTE STATION)	NV	1	
MT	MISSILE TUBE STATUS INDICATOR SYSTEM	V	1	437
MX	COMMINUTOR MOTOR FAILURE ALARM	NV	1	436
N	RUDDER ANGLE INDICATOR SYSTEM	V	2	437
5N	EMERGENCY RUDDER ANGLE INDICATOR SYSTEM (STBD)	SV	2	
6N	EMERGENCY RUDDER ANGLE INDICATOR SYSTEM (PORT)	SV	2	
NP	BOW PROPULSION UNIT ANGLE INDICATOR SYSTEM	SV	2	437
NQ	BOW PROPULSION UNIT POSITION INDICATOR SYSTEM	SV	2	437
PA	AFFF STATION ACTUATION ALARM SYSTEM	NV	1	436
PB	TEMPERATURE INDICATOR SYSTEM	NV	1	437
1PB	TEMPERATURE INDICATOR SYSTEM FOR ENGINES	NV	1	
2PB	CHILL AND FREEZE ROOM TEMPERATURE INDICATOR AND ALARM SYSTEM	SV	1	
3PB	FUEL TEMPERATURE INDICATOR SYSTEM	SV	1	
4PB	LUBRICATING OIL TEMPERATURE INDICATOR SYSTEM	SV	2	
5PB	HYDRAULIC FLUID TEMPERATURE ALARM AND INDICATOR SYSTEM	SV	2	
6PB	FREON TEMPERATURE INDICATOR SYSTEM	NV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
8PB	SUPERHEATER AND DESUPERHEATER OUTLET TEMPERATURE IND SYS	SV	1	
9PB	PROPELLER HYDRAULIC SERVO SUPPLY TEMPERATURE INDICATOR SYSTEM	SV	2	
10PB	ECM TEMPERATURE MONITORING SYSTEM	SV	1	
PF	POWER FAILURE ALARM SYSTEM	SV	1	436
1PF	IC SWITCHBOARD POWER FAILURE ALARM SYSTEM	V	1	
2PF	400Hz STATIC FREQUENCY CONVERTOR POWER SHUT DOWN ALARM SYS	V	1	
3PF	FREQUENCY STANDARD ON BATTERY	V	2	
4PF	AN/SLQ-32 ANTENNA AIR PRESSURIZATION VENT POWER FAIL ALARM SYSTEM	NV	1	
5PF	POWER FAILURE ALARM SYSTEM (UNINTERRUPTED POWER SUPPLY)	SV	4	
6PF	STEERING AND CONTROL SYSTEM POWER FAILURE ALARM SYSTEM	SV	2	
7PF	155 VDC POWER FAILURE ALARM SYSTEM	SV	1	
8PF	VLS POWER FAILURE ALARM SYSTEM	SV	1	
9PF	EXHAUST FAN POWER FAILURE ALARM	NV	2	
10PF	UNIT-IN-DOCK POWER FAILURE INDICATOR SYSTEM	SV	1	
PC	PRESSURE INDICATOR SYSTEM	SV	2	437
1PG	MANIFOLD PRESSURE INDICATOR SYSTEM	NV	2	
2PG	HYDRAULIC OIL PRESSURE INDICATOR SYSTEM	SV	2	
3PG	STEAM PRESSURE ALARM AND INDICATOR SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
4PG	FRESH AND SEAWATER PRESSURE INDICATOR SYSTEM	SV	2	
5PG	LUBRICATING OIL PRESSURE INDICATOR SYSTEM	SV	2	
6PG	FUEL PRESSURE INDICATOR SYSTEM	SV	1	
7PG	SEWAGE PUMP PRESSURE INDICATOR SYSTEM	NV	3	
8PG	FIRE PUMP PRESSURE INDICATOR SYSTEM	SV	1	
9PG	AIR PRESSURE INDICATOR SYSTEM	SV	2	
PS	PUMP SUCTION ALARM SYSTEM	SV	2	436
PT	POWER TURBINE TORQUE AND HORSEPOWER INDICATOR SYSTEM	SV	3	437
PW	CLUTCH/BRAKE POSITION INDICATOR SYSTEM	SV	2	437
PX	PROPULSION PLANT ALARM AND INDICATOR SYSTEM	V	1	437
QD	PRESSURE DIFFERENTIAL ALARM SYSTEM	V	1	436
1QD	FILTER DIFFERENTIAL PRESSURE COOLING SYSTEM	SV	2	
2QD	FUEL OIL HIGH DIFFERENTIAL PRESSURE ALARM SYSTEM	SV	1	
QG	DIESEL ENGINE VENTILATION ALARM SYSTEM	NV	1	436
1QG	DIESEL ENGINE COMBUSTION AIR INTAKE ALARM SYSTEM	NV	1	
QS	INCINERATOR SHUTDOWN ALARM SYSTEM	NV	4	436
QV	COMPARTMENT VENTILATION ALARM SYSTEM	SV	1	436
QX	OXYGEN-NITROGEN PLANT VENTILATION EXHAUST ALARM SYSTEM	SV	1	436
RB	ROTARY BEACON SIGNAL SYSTEM	NV	2	437

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
RC	CATAPULT SIGNAL SYSTEM	NV	2	437
RD	SAFETY OBSERVER WARNING SYSTEM	NV	2	436
1RD	CATAPULT SAFETY OBSERVER WARNING SYSTEM	NV	2	
RF	TRAFFIC CONTROL SYSTEM	NV	2	437
RM	RADIATION MONITORING SYSTEM	V	1	437
RP	AQUEOUS FILM FORMING FOAM CONTROL AND INDICATOR SYSTEM	SV	1	437
RQ	CATAPULT STEAM PRESSURE ORDER SYSTEM	SV	2	437
1R-RN	OMEGA SYSTEM	V	2	422
2R-RN	SATNAV SYSTEM	V	2	423
3R-RN	TACAN SYSTEM	V	2	423
4R-RN	RADIO DIRECTION FINDER SYSTEM	V	2	423
SB	SALINITY INDICATOR SYSTEM	SV	1	437
1SB	DISTILLING PLANTS SALINITY INDICATOR SYSTEM	SV	1	
2SB	PROPULSION PLANT CONDENSATE SALINITY INDICATOR SYSTEM	SV	2	
3SB	BOILER WATER CONDUCTIVITY MEASURING SYSTEM	SV	2	
4SB	ELECTRONIC COOLING WATER SALINITY INDICATOR SYSTEM	SV	1	
5SB	STEAM REBOILER SALINITY INDICATOR AND ALARM SYSTEM	NV	1	
7SB	AIRCRAFT FRESH WATER SALINITY INDICATOR SYSTEM	SV	1	
8SB	PURE WATER SALINITY INDICATOR SYSTEM	SV	1	
10SB	DEMINEALIZED WATER SALINITY INDICATOR SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
11SB	SEA WATER CONTAMINATION DETECTOR SYSTEM FOR EXTERNAL HYDRAULIC SYS	SV	2	
12SB	MAKE-UP FEED WATER SALINITY INDICATOR SYSTEM	SV	1	
13SB	SALINITY/AUTOMATIC SHUTDOWN INDICATOR SYSTEM	SV	1	
SD	SSA FAULT ALARM SYSTEM	SV	2	436
1SD	AN/SPS-49 SSA FAULT ALARM SYSTEM	SV	2	
2SD	AN/SPS-55 SSA FAULT ALARM SYSTEM	SV	2	
SE	SHIP ENTERTAINMENT SYSTEM	NV	4	434
SG	BOILER STACK GAS ANALYZER INDICATOR SYSTEM	NV	1	437
SN	SNORKEL SAFETY SYSTEM	V	2	436
1SN	SNORKEL INDUCTION SAFETY SYSTEM	V	2	
2SN	SNORKEL EXHAUST SAFETY SYSTEM	V	2	
1SP	REMOTE THRUST BEARING COLLAR POSITION INDICATOR SYSTEM	NV	2	437
2SP	SHAFT LOCKED INDICATOR SYSTEM	NV	2	
3SP	SHAFT REVERSE ROTATION INDICATOR SYSTEM	NV	2	
SR	ELECTRIC CHARACTER TRANSMISSION AND INDICATOR SYSTEM	NV	2	437
2SR	AIR SUPPORT INFORMATION SYSTEM	NV	2	
3SR	METEOROLOGICAL INFORMATION TRANSMISSION AND INDICATOR SYSTEM	NV	2	
4SR	ELECTROWRITER TRANSMISSION AND INDICATOR SYSTEM	NV	1	
5SR	FACSIMILE MESSAGE PROCESSING SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
ST	TORSIONMETER SHAFT TORQUE INDICATOR SYSTEM	SV	2	437
SW	OILY WASTE SEPARATOR ALARM SYSTEM	SV	2	436
TA	TURBINE GENERATOR SPEED INDICATOR SYSTEM	SV	2	437
1TA	POWER TURBINE SPEED INDICATOR SYSTEM	SV	2	
2TA	GAS TURBINE GENERATOR SPEED INDICATOR SYSTEM	SV	2	
TB	FORCED DRAFT BLOWER TACHOMETER SYSTEM	SV	2	437
TC	THROTTLE CONTROL INDICATOR SYSTEM	SV	1	437
TD	LIQUID LEVEL ALARM SYSTEM	NV	1	436
1TD	SHIPS FUEL LIQUID LEVEL INDICATOR AND ALARM SYSTEM	NV	1	
1TD1	FUEL HEAD TANK LEVEL ALARM SYSTEM	NV	1	
1TD2	FUEL DRAIN TANK HIGH LEVEL ALARM SYSTEM	SV	1	
1TD3	FUEL GRAVITY FEED TANK LEVEL ALARM SYSTEM	SV	1	
1TD4	FUEL LEAKAGE TANKS HIGH LEVEL ALARM SYSTEM	SV	1	
1TD5	FUEL SERVICE TANK LOW LEVEL ALARM SYSTEM	NV	1	
2TD	SHIPS LUBRICATING OIL LIQUID LEVEL ALARM SYSTEM	SV	1	436
2TD1	OIL STOWAGE TANK LEVEL ALARM SYSTEM	NV	1	
2TD2	OIL SUMP LOW LEVEL ALARM SYSTEM	SV	1	
2TD3	TANK LEVEL ALARM SYSTEM	SV	1	
2TD4	HYDRAULIC FLUID LEVEL ALARM SYSTEM	SV	1	
2TD5	CONTAMINATED OIL TANK HIGH LEVEL ALARM SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
2TD6	USED OIL TANK HIGH LEVEL ALARM SYSTEM	NV	2	
2TD7	PROPELLER HUB LUBRICATING OIL LOW LEVEL ALARM SYSTEM	NV	1	
3TD	WATER LEVEL LIQUID ALARM SYSTEM	SV	1	436
3TD1	WATER STOWAGE TANK LEVEL ALARM SYSTEM	SV	1	
3TD2	WATER DRAIN COLLECTING TANK ALARM SYSTEM	SV	1	
3TD3	WATER EXPANSION TANK LEVEL ALARM SYSTEM	SV	1	
3TD4	BOILER WATER LEVEL ALARM SYSTEM	SV	1	
3TD5	FEED AND DRAIN TANK LEVEL ALARM SYSTEM	SV	1	
3TD6	DISTILLING PLANT BRINE TANK LEVEL ALARM SYSTEM	NV	1	
3TD7	RESERVE FEED TANK LEVEL ALARM SYSTEM	SV	1	
3TD8	CROSSOVER DRAIN HIGH LEVEL ALARM SYSTEM	SV	1	
3TD9	DAY TANK LEVEL ALARM SYSTEM	V	1	
3TD10	WATER PUMP HEAD TANK LEVEL ALARM SYSTEM	SV	1	
3TD11	WATER INJECTION TANK LEVEL ALARM SYSTEM	SV	1	
3TD12	WATER WASHDOWN TANK LEVEL ALARM SYSTEM	SV	1	
3TD17	SONAR DOME FILL TANK LEVEL ALARM SYSTEM	SV	2	
3TD18	FUEL OIL SEA WATER COMPENSATING TANK LEVEL ALARM SYSTEM	NV	4	
3TD19	INDUCTION AIR SUMP ALARM SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
3TD20	MAGAZINE DELUGE/INJECTION SYSTEM TANK LOW LEVEL ALARM SYSTEM	NV	1	
4TD	SHIPS WASTE LIQUID LEVEL ALARM SYSTEM	NV	1	436
4TD1	SEWAGE TANK LEVEL ALARM SYSTEM	NV	1	
4TD2	EFFLUENT AND CONTAMINATED LAUNDRY TANK LEVEL ALARM SYSTEM	NV	1	
4TD3	WASTE DRAIN TANK LEVEL ALARM SYSTEM	SV	1	
4TD4	WASTE EJECTION TANK LEVEL ALARM SYSTEM	NV	1	
4TD5	BILGE COLLECTING TANK LEVEL ALARM SYSTEM	SV	1	
5TD	MISCELLANEOUS TANK LEVEL ALARM SYSTEM	NV	1	436
5TD1	CONTAMINATED OTTO FLUID TANK LEVEL ALARM SYSTEM	NV	1	
5TD2	DISINFECTANT TANK LEVEL ALARM SYSTEM	SV	2	
TE	TIME-EVENT INDICATOR SYSTEM	SV	2	437
TK	TANK LEVEL INDICATOR SYSTEM	SV	2	437
1TK	FUEL TANK LEVEL INDICATOR SYSTEM	SV	1	
1TK1	SHIP'S FUEL STOWAGE TANK LEVEL INDICATOR SYSTEM	NV	4	
1TK2	SHIP'S SERVICE TANK LEVEL INDICATOR SYSTEM	SV	1	
1TK3	FUEL RECEIVING TANK LEVEL INDICATOR SYSTEM	SV	1	
1TK4	FUEL PURIFIER DRAIN TANK LEVEL INDICATOR SYSTEM	NV	1	
1TK5	SHIP'S FUEL AND BALLAST TANK LEVEL INDICATOR SYSTEM	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
1TK6	CONTAMINATED FUEL SETTLING TANK LEVEL INDICATOR SYSTEM	SV	1	
2TK	OIL TANK LEVEL INDICATOR SYSTEM	SV	2	
2TK1	LUBRICATING OIL STOWAGE TANK LEVEL INDICATOR SYSTEM	SV	2	
2TK2	LUBRICATING OIL STOWAGE AND SETTLING TANK LEVEL INDICATOR SYSTEM	NV	1	
2TK3	LUBRICATING OIL SUMP TANK LEVEL INDICATOR SYSTEM	SV	1	
2TK4	PROPELLER HYDRAULIC SUMP TANK LEVEL INDICATOR ALARM SYSTEM	SV	1	
2TK5	LUBRICATING OIL HEAD TANK LEVEL INDICATOR SYSTEM	NV	1	
2TK6	SYNTHETIC OIL STOWAGE AND CONDITIONING TANK LEVEL INDICATOR SYSTEM	SV	1	
2TK7	WASTE OIL DRAIN TANK LEVEL INDICATOR SYSTEM	SV	1	
3TK	WATER TANK LEVEL INDICATOR SYSTEM	SV	1	
3TK1	POTABLE WATER TANK LEVEL INDICATOR SYSTEM	NV	1	
3TK2	DISTILLED WATER TANK LEVEL INDICATOR SYS	V	1	
3TK3	DEAERATING FEED TANK (DFT) LEVEL INDICATOR SYSTEM	V	1	
3TK4	RESERVE FEED WATER TANK LEVEL INDICATOR SYSTEM	NV	1	
3TK5	FRESH WATER DRAIN COLLECTING TANK LEVEL INDICATOR SYSTEM	NV	1	
3TK6	WATER EXPANSION TANK LEVEL INDICATOR SYSTEM	NV	1	
3TK7	BRINE TANK LEVEL INDICATOR SYSTEM	NV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
3TK8	BOILER WATER LEVEL INDICATOR SYSTEM	NV	1	
3TK9	REBOILER FEED AND DRAIN TANK LEVEL INDICATOR SYSTEM	SV	4	
4TK	WASTE TANK LEVEL INDICATOR SYSTEM	SV	4	
4TK1	OILY WASTE TANK LEVEL INDICATOR SYSTEM	NV	1	
4TK2	OILY WATER WASTE TANK LEVEL INDICATOR SYSTEM	NV	1	
4TK3	SEWAGE HOLDING TANK LEVEL INDICATOR SYSTEM	V	1	
5TK	BALLAST TANK LEVEL INDICATOR SYSTEM	NV	1	
5TK1	CLEAN BALLAST TANK LEVEL INDICATOR SYSTEM	NV	4	
5TK2	PEAK TANK LEVEL INDICATOR SYSTEM	NV	2	
5TK3	FOREPEAK TANK LEVEL INDICATOR SYSTEM	NV	1	
5TK4	LIST CONTROL TANK LEVEL INDICATOR SYSTEM	SV	1	
5TK5	FLOODABLE VOID PROTECTIVE TANK LEVEL INDICATOR SYSTEM	SV	2	
6TK	CARGO TANK LEVEL INDICATOR SYSTEM	SV	1	
6TK1	CARGO FUEL SETTLING TANK INDICATOR SYSTEM	SV	2	
6TK2	CARGO FUEL STOWAGE TANK LEVEL INDICATING SYSTEM	SV	2	
6TK3	CARGO OIL SETTLING TANK LEVEL INDICATOR SYSTEM	SV	2	
6TK4	CARGO OIL STOWAGE TANK LEVEL INDICATOR SYSTEM	SV	2	
6TK5	CARGO FUEL OR CARGO OIL STOWAGE TANK LEVEL INDICATOR SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
6TK6	CONTAMINATED CARGO FUEL COLLECTING TANK LEVEL INDICATOR SYSTEM	SV	2	
6TK7	CONTAMINATED CARGO OIL COLLECTING TANK LEVEL INDICATOR SYSTEM	SV	2	
7TK	AFFF FOAM CONCENTRATE TANK LEVEL INDICATOR SYSTEM	SV	2	
8TK	OTTO FLUID TANK LEVEL INDICATOR SYSTEM	SV	2	
9TK	MISCELLANEOUS TANK LEVEL INDICATOR SYSTEM	SV	2	
TL	DEAD RECKONING SYSTEM	SV	2	426
TM	TEMPERATURE MONITORING SYSTEM	SV	2	437
1TM	PROPULSION PLANT TEMPERATURE MONITORING SYSTEM	SV	2	
2TM	REACTOR PLANT TEMPERATURE MONITORING SYSTEM	V	1	
4TM	CARGO TEMPERATURE MONITORING SYSTEM	SV	4	
5TM	SSN ELECTRONIC COOLING MONITORING SYSTEM	V	1	
7TM	PROPULSION THRUST BEARING TEMPERATURE MONITORING SYSTEM	SV	2	
9TM	HIGH PRESSURE TURBINE TEMP MONITORING SYSTEM	SV	1	
12TM	GAS TURBINE GENERATOR TEMPERATURE MONITORING SYSTEM	SV	1	
13TM	MISCELLANEOUS MACHINERY TEMPERATURE MONITORING SYSTEM	SV	2	
18TM	400Hz M/G SET TEMPERATURE MONITORING SYSTEM	SV	2	
19TM	MAIN REDUCTION GEAR LUBRICATING OIL TEMPERATURE INDICATION SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
20TM	POTABLE HOT WATER HIGH TEMPERATURE MONITORING SYSTEM	SV	1	
TP	MAIN BALLAST TANK INDICATOR SYSTEM	NV	1	437
TQ	PUMP FLOW INDICATOR SYSTEM	SV	2	437
1TQ	TRIM AND DRAIN PUMP FLOW INDICATOR SYSTEM	SV	2	
2TQ	DRAIN PUMP FLOW INDICATOR SYSTEM	SV	2	
3TQ	RADIOACTIVE LIQUID WASTE FLOW SYSTEM	V	1	
4TQ	OVERBOARD DISCHARGE FLOW INDICATOR SYSTEM	NV	1	
1TR	HULL OPENING INDICATOR SYSTEM	V	1	437
2TR	FBM LAUNCHER MUZZLE DOOR INDICATOR SYSTEM	V	1	
3TR	DOOR, RAMP AND GATE POSITION INDICATOR SYSTEM	SV	1	
4TV	CIC TELEVISION SYSTEM	SV	2	434
6TV	SURVEILLANCE TELEVISION SYSTEM	SV	2	434
6TV1	GENERAL TOPSIDE SURVEILLANCE TELEVISION SYSTEM	SV	1	
6TV2	MACHINERY ROOM SURVEILLANCE TELEVISION SYSTEM	SV	2	
6TV3	UNDERWATER SURVEILLANCE TELEVISION SYSTEM	SV	2	
6TV4	HELICOPTER LOG AREA AND WELL DECK TELEVISION SYSTEM	SV	2	
6TV5	AIRCRAFT AND ORDNANCE HANDLING SURVEILLANCE TELEVISION SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
6TV6	LIGHTERAGE AND ASSAULT MONITORING AND SURVEILLANCE TELEVISION SYSTEM	SV	2	
8TV	INTEGRATED LAUNCH & RECOVERY TELEVISION SURVEILLANCE (ILARTS) SYSTEM	SV	2	434
9TV	COMMAND BRIEFING TELEVISION SYSTEM	NV	4	434
9TV1	AIR OPERATION BRIEFING TELEVISION SYSTEM	SV	4	
14TV	SHIP'S INFORMATION, TRAINING, ENTERTAINMENT TELEVISION SYSTEM (SITE)	NV	4	434
15TV	ENTERTAINMENT TELEVISION ANTENNA DISTRIBUTION SYSTEM	NV	4	434
TW	WEAPON TRAIN WARNING SYS	NV	1	436
9TW	ASROC LCHR TRAIN WARNING SYSTEM	SV	2	
23TW	RAM MISSILE TRAIN WARNING SYSTEM	SV	2	
VB	VIBRATION ALARM AND INDICATOR SYSTEM	SV	2	436
1VB	PROPULSION TURBINE GAS GENERATOR VIBRATION INDICATOR SYSTEM	SV	2	
2VB	PROPULSION TURBINE POWER TURBO GEN VIBRATION INDICATOR SYSTEM	SV	2	
3VB	GAS TURBINE GENERATOR VIBRATION INDICATOR SYSTEM	SV	1	
4VB	PURIFIER VIBRATION ALARM SYSTEM	SV	2	
VP	CONTROLLABLE PITCH PROPELLER INDICATOR SYSTEM	V	2	437
3VP	BOW THRUSTER CONTROLLABLE PITCH PROPELLER INDICATOR SYSTEM	SV	2	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
VS	VALVE POSITION INDICATOR SYSTEM	NV	1	437
1VS	FIRE MAIN VALVE POSITION INDICATOR SYSTEM	NV	2	
2VS	FUEL VALVE POSITION INDICATOR SYSTEM	NV	4	
3VS	JP-5 VALVE POSITION INDICATOR SYSTEM	NV	4	
3VS	FLOOD CONTROL VALVE AND HULL CLOSURE INDICATOR SYSTEM	V	1	
4VS	MAIN STEAM VALVE POSITION INDICATOR SYSTEM	SV	1	
4VS	MAIN AND AUXILIARY SEA WATER VALVE POSITION INDICATOR SYSTEM	V	1	
7VS	PROPULSION PLANT VALVE POSITION INDICATOR SYSTEM	NV	1	
7VS	GUARDING VALVE POSITION INDICATOR SYSTEM	NV	1	
8VS	HIGH PRESSURE AIR VALVE POSITION INDICATOR SYSTEM	SV	1	
8VS	COOLANT PRESSURE RELIEF VALVE ALARM AND INDICATOR SYSTEM	NV	1	
9VS	AFFF VALVE POSITION INDICATOR SYSTEM	NV	1	
10VS	WATER WASH DOWN VALVE POSITION INDICATOR SYSTEM	NV	2	
11VS	FUEL FILL VALVE POSITION INDICATION SYSTEM	NV	4	
13VS	PRAIRIE AIR VALVE POSITION INDICATOR SYSTEM	SV	2	
14VS	BULKHEAD VENT VALVE POSITION INDICATOR SYSTEM	NV	1	
15VS	DEBALLAST AIR VALVE CONTROL SYSTEM	SV	2	
16VS	CATAPULT WET ACCUMULATOR STEAM FILL VALVE BY PASS IND SYS	SV	1	

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
17VS	BALLAST VALVE POSITION INDICATING SYSTEM	NV	1	
W	WHISTLE OPERATING SYSTEM	NV	2	436
WB	ANCHOR WINDLASS ORDER SYSTEM	NV	2	437
WF	WIRE-FREE COMMUNICATIONS SYSTEM	SV	2	433
1WF	FLIGHT DECK WIRE-FREE COMMUNICATIONS SYSTEM	SV	2	433
2WF	AIR WING MAINTENANCE WIRE-FREE COMMUNICATIONS SYSTEM	SV	2	433
3WF	SPECIAL WEAPONS SECURITY WIRE-FREE COMMUNICATIONS SYSTEM	V	1	433
4WF	DAMAGE CONTROL WIRE-FREE COMMUNICATIONS SYSTEM	V	1	433
5WF	WELL DECK WIRE-FREE COMMUNICATION SYSTEM	SV	2	433
6WF	MASTER-AT-ARMS WIRE-FREE COMMUNICATIONS SYSTEM	SV	2	433
7WF	ORDNANCE HANDLING WIRE-FREE COMMUNICATIONS SYSTEM	V	1	433
8WF	SHIP CONTROL WIRE-FREE COMMUNICATIONS SYSTEM	V	2	433
9WF	SUPPLY WIRE-FREE COMMUNICATIONS SYSTEM	NV	4	433
X1J	SHIP ADMINISTRATION CIRCUIT	V	1	432
X1JG	AUXILIARY AIRCRAFT CONTROL CIRCUIT	V	1	432
X1JV	AUXILIARY MANEUVERING AND DOCKING CIRCUIT	V	1	432
X2JZ	AUXILIARY DAMAGE AND STABILITY CONTROL CIRCUIT	V	1	432
X3J	ENGINEER WATCH OFFICER'S CIRCUIT	V	1	432
X4J	DEGAUSSING CONTROL CIRCUIT	V	1	432

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
X5J	MACHINERY ROOM CONTROL CIRCUIT	V	1	432
X6J1	AIR CONTROL SERVICE CIRCUIT	V	1	432
X6J2	SURFACE AND AIR SEARCH SERVICE CIRCUIT	V	1	432
X6J3	RADIO SERVICE CIRCUIT	V	1	432
X6J4	AIR NAVIGATION SERVICE CIRCUIT	V	1	432
X6J5	ECM SERVICE CIRCUIT	V	1	432
X6J6	SONAR SERVICE CIRCUIT	V	1	432
X6J11	NTDS SERVICE CIRCUIT	V	1	432
X6J12	NTDS SERVICE CIRCUIT	V	1	432
X6J13	NTDS SERVICE CIRCUIT	V	1	432
X6J14	NTDS SERVICE CIRCUIT	V	1	432
X7J	RADIOSONDE-BATHYTHERMOGRAPH (BT) INFORMATION CIRCUIT	V	1	432
X8J	REPLENISHMENT-AT-SEA CIRCUIT	V	1	432
X10J	CARGO TRANSFER CONTROL CIRCUIT	V	1	432
X11J	CAPTAIN'S AND ADMIRAL'S CRUISING CIRCUIT	V	1	432
X12J	CAPSTAN CONTROL CIRCUIT	V	1	432
X14J	MISSILE HANDLING AND NUCLEAR TRUNK CRANE CIRCUIT	V	1	432
X15J	INS INFORMATION CIRCUIT	V	1	432
X16J	AIRCRAFT ELEVATOR CIRCUIT	V	1	432
X17J	5-INCH AMMUNITION HOIST CIRCUIT	V	1	432
X18J	MACHINE GUN AMMUNITION HOIST CIRCUIT	V	1	432
X20J	WEAPONS ELEVATOR CIRCUIT	V	1	432
X21J	CATAPULT CIRCUIT	V	1	432

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
X22J	CATAPULT STEAM CONTROL CIRCUIT	V	1	432
X23J	STORES CONVEYOR CIRCUIT	V	1	432
X24J	CARGO ELEVATOR CIRCUIT	V	1	432
X25J	SONAR AND LAMPS SERVICE CIRCUIT	V	1	432
X26J	JET ENGINE TEST CIRCUIT	V	1	432
X27J	BATTLE DRESSING STATION CIRCUIT	V	1	432
X28J	DUMBWAITER CIRCUIT	V	1	432
X36J	STERN GATE HANDLING CIRCUIT	NV	1	432
X40J	CASUALTY COMMUNICATION CIRCUIT	V	1	432
X41J	SPECIAL WEAPONS SHOP SERVICE CIRCUIT	V	1	432
X43J	WEAPONS SYSTEM SERVICE CIRCUIT	V	1	432
X44J	ASROC SERVICE CIRCUIT	V	1	432
X45J	SPECIAL WEAPONS SECURITY CIRCUIT	V	1	432
X48J	FLAG DATA DISPLAY OPERATORS CIRCUIT	V	1	432
X50J	AQUEOUS FILM FORMING FOAM (AFFF) AND FIREFIGHTING EQUIPMENT CIRCUIT	V	1	432
X52J	SEWAGE DISPOSAL HANDLING CIRCUIT	V	1	432
X54J	OILY WASTE TANK LEVEL CONTROL CIRCUIT	SV	2	432
X71J	TELEVISION SERVICE CIRCUIT	V	1	432
XJA	AUXILIARY CAPTAINS BATTLE CIRCUIT	V	1	432
XJX	AUXILIARY RADIO AND SIGNAL CIRCUIT	V	1	432
XLC	AUXILIARY GYROCOMPASS SYSTEM	V	2	426

22 February 1995

Circuit Designation	Title of system	Importance	Readiness Class	For details, see Gen. Spec. Section
XLN	AUXILIARY INERTIAL NAVIGATION SYSTEM	V	2	427
XN	AUXILIARY RUDDER ANGLE INDICATOR SYSTEM	NV	2	437
XNB	AUXILIARY FAIRWATER PLANE INDICATOR SYSTEM	NV	2	437
XNR	AUXILIARY BOW PLANE ANGLE INDICATOR SYSTEM	NV	2	437
XNS	AUXILIARY STERN PLANE ANGLE INDICATOR SYSTEM	NV	2	437
Y	UNDERWATER LOG SYSTEM	V	2	426