DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION

NAVAL SHIP SYSTEMS
ENGINEERING STATION
PHILADELPHIA, PA 19112-5083

IN REPLY REFER TO

9542
Ser 9234/091

OCT 21 2002

From: Commander, Cardercock Division, Naval Surface Warfare Center,
Philadelphia, PA 19112-5083
To: Commander, Naval Sea Systems Command Washington, DC (Code 05Z10)

Subj: MCM CLASS CRITICAL/NON-CRITICAL FLEXIBLE HOSE LIST

Ref: (a) COMNAVSEASYSCOM LTR Serial 03134/443 of 19 Dec 97
(b) NAVSEA S6430-AE-TED-010-Technical Directive for Piping Devices and Flex Hose Assemblies.

Encl: (1) NSWCCD-SSES Report of Travel for USS AVENGER (MCM-1).

1. By references (a) and (b), ACN 3A (NSDSA Control Number A48048) was issued to modify the criteria for determining the criticality and to extend the replacement requirements, stated in reference (b), to twelve years for critical applications. No periodic replacement is required for Condition Based Maintenance (CBM) hoses unless assemblies fail visual inspection or in service.

2. As also stated in reference (a), hose lists are to be forwarded to Carderock Division, Naval Surface Warfare Center (NSWCCD-SSES) Code 9234 for review to develop a list of critical flex hose assemblies prior to forwarding the list to Commander, Naval Sea Systems Command (NAVSEA) 05 for approval.

3. A report of travel is provided as enclosure (1) and includes existing flex hose configuration and proposed Critical/Non-Critical recommendations for a typical MCM-1 Class Ship for Navsea 05 review and approval.

4. The NSWCCD-SSES points of contact are A. Pappalardo/D. Luciani, Code 9234, Commercial (215) 897-7242/7875 or DSN 443-7242/7875.

T.A. PERRY
By direction

Copy to:
NAVSEA Washington, DC (Codes 03N, PEO MUW PMS-490-4)
NAVSHIPYD Puget Sound, WA (Code 260.5 LCM)
CONAVSURFLANT Norfolk, VA (N434, N431A9)
COMREGSUPPGRU Ingleside, TX (N4)
COMINEWARCOM Corpus Christi, TX (N4, N43)
NSWCCD-SSES (Codes 923/9234(2), 923S)

Writer: A. Pappalardo, Code 9234, X7242
Typist: I. Belgiorno, 11 Oct 02, 923S

REPORT OF TRAVEL

I. Subject:

Conduct configuration/validation to establish critical/non-critical designation for installed flex hose assemblies on board USS AVENGER (MCM-1)

II. Place visited:

USS AVENGER (MCM-1), INGLESIDE, TX

III. Dates:

September 22-27,2002

IV. Persons making trip:

Albert Pappalardo
NSWCCD-SSES 9234

V. Persons contacted:

USS AVENGER (MCM-1)

LCMDR Beaver (CO)
LT. Hopkins

VI. References:
(a) NAVSEA Ltr Ser 03134/443 of 19 Dec 97
(b) NAVSEA S6430-AE-TED-010-Technical Directive for Piping Devices and Flex Hose Assemblies
(c) Phoncon NAVSEA PMS 490-4 (Captain Tungett)/NSWCCD-SSES Code 9234 (AL Pappalardo) of 12 Aug 02.

VII. Attachments:
(A) Installed Flex Hose configuration
(B) Proposed Critical/Non-Critical designation for installed Flex Hose Assemblies spreadsheet.

VIII. Background:

A. By references (a) and (b) the service life of all flex hose assemblies is twelve years unless a hose criticality review is accomplished. Upon completion of a hose criticality review the following applies; twelve years for critical applications and no periodic replacement is required for Condition Based Maintenance (CBM) hoses unless assemblies fail visual inspection or in service.

B. As also stated in reference (a), hose lists are to be forwarded to Carderock Division, Naval Surface Warfare Center (NSWCCD-SSES) Code 9234 for review to develop a list of critical flex hose assemblies prior to forwarding the list to Commander, Naval Sea Systems Command (NAVSEA) 05 for approval.

C. As requested during Ref (b) NSWCCD-SSES Code 9234 was asked to accomplish a configuration/validation survey on board the USS AVENGER (MCM-1) to establish a final list of critical/non-critical hose assemblies for the MCM Class Ships.

IX. Findings/Conclusions:

A. Attachment (A) identifies existing flex hose configuration onboard USS AVENGER. Attachment (B) provides a final list of hose assemblies and proposed changes (Critical/Non Critical) to be utilized until Navsea 05 authorizes final approval. Note: the following criteria was utilized in determining criticality:

(1) System operating pressure/fluid
(2) System redundancy
(3) Length of service/condition of existing hose assemblies
(4) Ship Safety

Albert Pappalardo
Piping and Auxiliary
Equipment Section

USS AVENGER (MCM-1) FLEXIBLE HOSE LIST

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1AC-S/W-001	#1 A/C CONDENSOR S/W OVERBOARD	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1AC-S/W-002	#1 A/C CONDENSOR S/W SUPPLY	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1AC-S/W-003	#1 A/C CONDENSOR S/W VENT	A/C	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
2AC-S/W-001	#2 A/C CONDENSOR S/W OVERBOARD	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2AC-S/W-002	#2 A/C CONDENSOR S/W SUPPLY	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
2AC-S/W-003	#2 A/C CONDENSOR S/W VENT	A/C	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
1AC-C/W-001	CHILLED WATER CIRC PUMP #1 DISCHARGE	A/C	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
1AC-C/W-002	CHILLED WATER CIRC PUMP #1 PRESSURE GAGE	A/C	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
1AC-C/W-003	CHILLED WATER CIRC PUMP #1 PRESSURE SWITCH	A/C	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
1AC-C/W-004	CHILLED WATER CIRC PUMP #1 SUCTION	A/C	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER		PMS	
2AC-C/W-001	CHILLED WATER CIRC PUMP #2 DISCHARGE	A/C	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
2AC-C/W-003	CHILLED WATER CIRC PUMP #2 PRESSURE GAGE	A/C	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2AC-C/W-002	CHILLED WATER CIRC PUMP #2 PRESSURE SWITCH	A/C	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2AC-C/W-004	CHILLED WATER CIRC PUMP #2 SUCTION	A/C	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER		PMS	

(ATTACHMENT A)

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
AC-C/W-015	FAN COIL ASSEMBLY 01-63-1 INLET	A/C	FAN RM 01-57-1-Q	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-016	FAN COIL ASSEMBLY 01-63-1 OUTLET	A/C	FAN RM 01-57-1-Q	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-017	FAN COIL ASSEMBLY 01-70-2 INLET	A/C	FAN RM 01-69-2-Q	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-018	FAN COIL ASSEMBLY 01-70-2 OUTLET	A/C	FAN RM 01-69-2-Q	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-005	FAN COIL ASSEMBLY 01-74-2 INLET	A/C	FAN RM 01-69-2-Q	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-006	FAN COIL ASSEMBLY 01-74-2 OUTLET	A/C	FAN RM 01-69-2-Q	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-009	FAN COIL ASSEMBLY 02-34-1 INLET	A/C	2-28-0	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-010	FAN COIL ASSEMBLY 02-34-1 OUTLET	A/C	2-28-0	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-012	FAN COIL ASSEMBLY 02-40-1 INLET	A/C	FAN RM 02-38-1-Q	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-011	FAN COIL ASSEMBLY 02-40-1 INLET	A/C	FAN RM 02-38-1-Q	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-013	FAN COIL ASSEMBLY 02-41-2 INLET	A/C	02-35-2-L	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-014	FAN COIL ASSEMBLY 02-41-2 OUTLET	A/C	02-35-2-L	1 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-008	FAN COIL ASSEMBLY 2-23-2 INLET	A/C	FAN RM 02-23-2-Q	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-007	FAN COIL ASSEMBLY 2-23-2 OUTLET	A/C	FAN RM 02-23-2-Q	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
AC-C/W-002	PORT CHILLER DISCHARGE	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-001	PORT CHILLER SUPPLY	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-004	STBD CHILLER DISCHARGE	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AC-C/W-003	STBD CHILLER SUPPLY	A/C	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
AB-HYD-001	HYDRAULIC BRAKE SUPPLY - AFT	ACOUSTIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
AB-HYD-002	HYDRAULIC BRAKE SUPPLY - FWD	ACOUSTIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-004	(PORT) OPERATING CYLINDER-PISTON END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-006	(PORT) OPERATING CYLINDER-ROD END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-002	(STBD) OPERATING CYLINDER-PISTON END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-008	(STBD) OPERATING CYLINDER-ROD END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-ASW-001	ASW TO BOWTHRUSTER SEAL	BOWTHRUSTER	BOW THRUSTER ROOM	5/16	SYNTHETIC RUBBER		PMS	
BTH-HYD-001	HYDRAULIC POWER PACK PORT X1	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-005	HYDRAULIC POWER PACK PORT X2	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-007	HYDRAULIC POWER PACK PORT X3	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
BTH-HYD-003	HYDRAULIC POWER PACK PORT X4	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BR-P/W-002	PORT A	BROMINATOR	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
BR-P/W-005	PORT B	BROMINATOR	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
BR-P/W-003	PORT C	BROMINATOR	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
BR-P/W-004	PORT D	BROMINATOR	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
BR-P/W-006	RETURN FROM RECIRC	BROMINATOR	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
BR-P/W-001	SUPPLY TO RECIRC	BROMINATOR	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
PCPP-HYD-008	(PORT) ATTACHED PUMP DISCHARGE	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-007	(PORT) ATTACHED PUMP SUCTION	CPP	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-018	(PORT) DRAIN TO OWHT	CPP	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
PCPP-HYD-020	(PORT) HOPM DISCHARGE TO O.D. BOX	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-024	(PORT) HOPM DISCHARGE TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-023	(PORT) HOPM RETURN OIL BACK PRESSURE GAGE	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-021	(PORT) HOPM RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-019	(PORT) HOPM STANDBY PUMP STRAINER D/P GAGE INLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PCPP-HYD-015	(PORT) HOPM STANDBY PUMP STRAINER D/P GAGE OUTLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-016	(PORT) HOPM SUCTION	CPP	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-022	(PORT) HOPM SUPPLY FROM ATTACH PUMP	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-012	(PORT) OIL DISTRIBUTION BOX DRAIN TO SUMP #1	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-013	(PORT) OIL DISTRIBUTION BOX DRAIN TO SUMP #2	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-014	(PORT) OIL DISTRIBUTION BOX DRAIN TO SUMP #3	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-005	(PORT) OIL DISTRIBUTION BOX HEAD TANK	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PCPP-HYD-002	(PORT) OIL DISTRIBUTION BOX L.P. SEAL DRAIN TO SUMP	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-009	(PORT) OIL DISTRIBUTION BOX RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-011	(PORT) OIL DISTRIBUTION BOX SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-010	(PORT) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-025	(PORT) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-001	(PORT) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-006	(PORT) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-004	(PORT) PITCH CONTROL MANIFOLD-RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PCPP-HYD-003	(PORT) PITCH CONTROL MANIFOLD-SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-017	(PORT) VENT	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-008	(STBD) ATTACHED PUMP DISCHARGE	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-007	(STBD) ATTACHED PUMP SUCTION	CPP	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-020	(STBD) DISCHARGE TO O.D. BOX	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-018	(STBD) DRAIN TO OWHT	CPP	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
SCPP-HYD-024	(STBD) HOPM DISCHARGE TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-022	(STBD) HOPM SUPPLY FROM ATTACH PUMP	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-012	(STBD) OIL DISTRIBUTION BOX DRAIN TO SUMP #1	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-013	(STBD) OIL DISTRIBUTION BOX DRAIN TO SUMP #2	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-014	(STBD) OIL DISTRIBUTION BOX DRAIN TO SUMP #3	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-005	(STBD) OIL DISTRIBUTION BOX HEAD TANK	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SCPP-HYD-002	(STBD) OIL DISTRIBUTION BOX L.P. SEAL DRAIN TO SUMP	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-009	(STBD) OIL DISTRIBUTION BOX RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-011	(STBD) OIL DISTRIBUTION BOX SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SCPP-HYD-025	(STBD) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-010	(STBD) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-001	(STBD) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-006	(STBD) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-004	(STBD) PITCH CONTROL MANIFOLD-RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
SCPP-HYD-003	(STBD) PITCH CONTROL MANIFOLD-SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-023	(STBD) RETURN OIL BACK PRESSURE GAGE	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-021	(STBD) RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-019	(STBD) STANDBY PUMP STRAINER D/P GAGE INLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-015	(STBD) STANDBY PUMP STRAINER D/P GAGE OUTLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-016	(STBD) SUCTION	CPP	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-017	(STBD) VENT	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-003	(PORT) CRANE PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-004	(PORT) CRANE PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-001	(PORT) CRANE PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PCP-HYD-002	(PORT) CRANE PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-001	(PORT) HOPM MANIFOLD-DRAIN (LR1)	DECK MACHINERY	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-002	(PORT) HOPM MANIFOLD-MS WINCH PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-003	(PORT) HOPM MANIFOLD-MS WINCH PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-004	(PORT) HOPM MANIFOLD-MS WINCH PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-005	(PORT) HOPM MANIFOLD-MS WINCH SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-006	(PORT) HOPM MANIFOLD-RETURN (R1)	DECK MACHINERY	STEERING GEAR ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-007	(PORT) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-008	(PORT) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-009	(PORT) HOPM MANIFOLD-STERN CRANE PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-016	(PORT) HOPM MANIFOLD-STERN CRANE SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-010	(PORT) HOPM MANIFOLD-SUCTION #1	DECK MACHINERY	STEERING GEAR ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-011	(PORT) HOPM MANIFOLD-SUCTION #2	DECK MACHINERY	STEERING GEAR ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-012	(PORT) HOPM MANIFOLD-SUPPLY (P1)	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-013	(PORT) HOPM MANIFOLD-SUPPLY (P2)	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PDM-HYD-014	(PORT) HOPM MANIFOLD-SUPPLY (SPP1)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-015	(PORT) HOPM MANIFOLD-SUPPLY (SPP2)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-017	(PORT) SUPPLY	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-001	(PORT) WINCH PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-004	(PORT) WINCH PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-002	(PORT) WINCH PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-003	(PORT) WINCH PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-001	(STBD) CRANE PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-002	(STBD) CRANE PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-003	(STBD) CRANE PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-004	(STBD) CRANE PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-001	(STBD) HOPM MANIFOLD-DRAIN (LR2)	DECK MACHINERY	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-002	(STBD) HOPM MANIFOLD-MAG CBL REEL PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-003	(STBD) HOPM MANIFOLD-MAG CBL REEL PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-004	(STBD) HOPM MANIFOLD-MAG CBL REEL PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SDM-HYD-005	(STBD) HOPM MANIFOLD-MAG CBL REEL SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-006	(STBD) HOPM MANIFOLD-RETURN (R2)	DECK MACHINERY	STEERING GEAR ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-007	(STBD) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-008	(STBD) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-009	(STBD) HOPM MANIFOLD-STERN CRANE PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-010	(STBD) HOPM MANIFOLD-STERN CRANE SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-011	(STBD) HOPM MANIFOLD-SUCTION #1	DECK MACHINERY	STEERING GEAR ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-012	(STBD) HOPM MANIFOLD-SUCTION #2	DECK MACHINERY	STEERING GEAR ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-013	(STBD) HOPM MANIFOLD-SUPPLY (P3)	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-014	(STBD) HOPM MANIFOLD-SUPPLY (P4)	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-015	(STBD) HOPM MANIFOLD-SUPPLY (SPP3)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-016	(STBD) HOPM MANIFOLD-SUPPLY (SPP4)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-017	(STBD) SUPPLY	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-001	(STBD) WINCH PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-004	(STBD) WINCH PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SWP-HYD-002	(STBD) WINCH PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-003	(STBD) WINCH PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-008	MINESWEEP WINCH CONTROL STATION CONNECTION SP1	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-001	MINESWEEP WINCH CONTROL STATION CONNECTION SP4	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-002	MINESWEEP WINCH CONTROL STATION CONNECTION X1A	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-003	MINESWEEP WINCH CONTROL STATION CONNECTION X1B	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-004	MINESWEEP WINCH CONTROL STATION CONNECTION X4A	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-005	MINESWEEP WINCH CONTROL STATION CONNECTION X4B	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-006	MINESWEEP WINCH MANIFOLD RETURN	DECK MACHINERY	MAIN DECK	1	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-007	MINESWEEP WINCH MANIFOLD SUPPLY	DECK MACHINERY	MAIN DECK	1	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-009	MN MNV HYDRAULIC SERVICE LOW PRESSURE SUPPLY	DECK MACHINERY	MNS MNT SHOP	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-010	MN MNV HYDRAULIC SERVICE RETURN	DECK MACHINERY	MNS MNT SHOP	1	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-011	MN MNV HYDRAULIC SERVICE SUPPLY	DECK MACHINERY	MNS MNT SHOP	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-018	SCND MNV HYDRAULIC SERVICE LOW PRESSURE SUPPLY	DECK MACHINERY	SWP GR STRM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-019	SCND MNV HYDRAULIC SERVICE RETURN	DECK MACHINERY	SWP GR STRM	1	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SDM-HYD-020	SCND MNV HYDRAULIC SERVICE SUPPLY	DECK MACHINERY	SWP GR STRM	1/2	SYNTHETIC RUBBER	144	REPLACE	
3DP-FP-004	3000 GPD DISTILLER- EDUCTOR PUMP SUCTION	DISTILLING PLANT	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
3DP-FP-001	3000 GPD DISTILLER- FEED PUMP DISCHARGE	DISTILLING PLANT	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER		PMS	
3DP-FP-002	3000 GPD DISTILLER- FEED PUMP SUCTION	DISTILLING PLANT	AUX MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
3DP-FP-003	3000 GPD DISTILLER- FEED PUMP SUCTION GAGE	DISTILLING PLANT	AUX MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
FF-M/S-002	MAGAZINE SPRINKLING - INLET	FIRE FIGHTING	MAG-01-82-1-M	3/8	SYNTHETIC RUBBER		PMS	
FF-M/S-001	MAGAZINE SPRINKLING - OUTLET	FIRE FIGHTING	MAG-01-82-1-M	3/8	SYNTHETIC RUBBER		PMS	
FM-HYD-003	FIREPUMP #1 ACTUATION VALVE RETURN	FIREMAIN	1-28-0-L	1/2	SYNTHETIC RUBBER		PMS	
FM-HYD-004	FIREPUMP #1 ACTUATION VALVE SUPPLY	FIREMAIN	1-28-0-L	1/2	SYNTHETIC RUBBER		PMS	
1FP-F/M-001	FIREPUMP #1 INLET	FIREMAIN	PUMP ROOM	3	SYNTHETIC RUBBER		PMS	
1FP-F/M-002	FIREPUMP #1 OUTLET	FIREMAIN	PUMP ROOM	3	SYNTHETIC RUBBER		PMS	
FM-HYD-001	FIREPUMP #2 ACTUATION VALVE RETURN	FIREMAIN	2-28-0	1/2	SYNTHETIC RUBBER		PMS	
FM-HYD-002	FIREPUMP #2 ACTUATION VALVE SUPPLY	FIREMAIN	2-28-0	1/2	SYNTHETIC RUBBER		PMS	
2FP-F/M-001	FIREPUMP #2 INLET	FIREMAIN	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2FP-F/M-002	FIREPUMP #2 OUTLET	FIREMAIN	AUX MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
2FP-F/M-003	FIREPUMP #2 PRESSURE GAGE	FIREMAIN	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
3FP-F/M-001	FIREPUMP #3 INLET	FIREMAIN	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
3FP-F/M-002	FIREPUMP #3 OUTLET	FIREMAIN	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
FOP-F/O-001	FUEL OIL PURIFIER - INLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-002	FUEL OIL PURIFIER BYPASS	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-004	FUEL OIL PURIFIER HEATER INLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-005	FUEL OIL PURIFIER HEATER - OUTLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-A-001	FUEL OIL PURIFIER L/P AIR	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
FOP-F/O-003	FUEL OIL PURIFIER OUTLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-O/W-002	FUEL OIL PURIFIER PAN DRAIN	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
FOP-P/W-001	FUEL OIL PURIFIER PRIMING WATER INLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
FOP-P/W-002	FUEL OIL PURIFIER SHOOT WATER INLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
FOP-O/W-001	FUEL OIL PURIFIER SLUDGE DRAIN	FUEL OIL PURIFER	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
FOT-F/O-001	FUEL OIL TRANSFER PUMP INLET	FUEL OIL TRANSFER	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
FOT-F/O-002	FUEL OIL TRANSFER PUMP OUTLET	FUEL OIL TRANSFER	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
H-HD-009	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-010	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-011	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-012	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-013	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-014	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-015	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-016	HALON CYLINDER DISCHARGE HOSE	HALON	AUX MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-001	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-002	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-003	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-004	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-005	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-006	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
H-HD-007	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
H-HD-008	HALON CYLINDER DISCHARGE HOSE	HALON	MAIN MACHINERY ROOM	1 1/2	METAL		PMS	
LOP-L/O-001	LUBE OIL PURIFIER DISCHARGE	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
LOP-O/W-001	LUBE OIL PURIFIER PAN DRAIN	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-002	LUBE OIL PURIFIER RETURN FROM HEATER	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-003	LUBE OIL PURIFIER SUCTION	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-004	LUBE OIL PURIFIER SUPPLY TO HEATER	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
1MPA-A-001	#1 MP AIR COMPRESSOR DISCHARGE	M/P AIR	AUX MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
1MPA-O/W-001	#1 MP AIR COMPRESSOR LUBE OIL SUMP DRAIN	M/P AIR	AUX MACHINERY ROOM	3/8	TEFLON		PMS	
1MPA-S/W-002	#1 MP AIR COMPRESSOR S/W COOLING OVERBOARD	M/P AIR	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
1MPA-S/W-003	#1 MP AIR COMPRESSOR S/W COOLING SUPPLY	M/P AIR	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
2MPA-A-001	#2 MP AIR COMPRESSOR DISCHARGE	M/P AIR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
2MPA-O/W-001	#2 MP AIR COMPRESSOR LUBE OIL SUMP DRAIN	M/P AIR	MAIN MACHINERY ROOM	3/8	SYNTHETIC RUBBER		PMS	
2MPA-S/W-001	#2 MP AIR COMPRESSOR S/W COOLING OVERBOARD	M/P AIR	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
2MPA-S/W-004	#2 MP AIR COMPRESSOR S/W COOLING SUPPLY	M/P AIR	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
MCR-HYD-001	HYDRAULIC BRAKE SUPPLY - AFT	MAGNETIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MCR-HYD-002	HYDRAULIC BRAKE SUPPLY - FWD	MAGNETIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-F/O-005	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/O-006	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-005	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-006	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/O-005	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/O-006	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/O-005	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/O-006	FUEL OIL STRAINER INLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/O-001	MAIN PRPLN ENG #1A FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-F/O-002	MAIN PRPLN ENG #1A FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-F/O-004	MAIN PRPLN ENG #1A FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-J/W-002	MAIN PRPLN ENG #1A JACKET WATER HEATER INLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
1AMPE-J/W-003	MAIN PRPLN ENG #1A JACKET WATER HEATER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1AMPE-J/W-001	MAIN PRPLN ENG #1A JACKET WATER PUMP PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1AMPE-A-001	MAIN PRPLN ENG #1A LEFT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1AMPE-L/0-001	MAIN PRPLN ENG #1A LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-002	MAIN PRPLN ENG #1A LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-003	MAIN PRPLN ENG #1A LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-005	MAIN PRPLN ENG #1A LUBE OIL FILTER TO OIL GALLERY	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
1AMPE-L/0-004	MAIN PRPLN ENG #1A LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-006	MAIN PRPLN ENG #1A LUBE OIL TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
1AMPE-L/0-008	MAIN PRPLN ENG #1A PRELUBE OIL PUMP OUTLET	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
1AMPE-L/0-007	MAIN PRPLN ENG #1A PRELUBE OIL PUMP TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
1AMPE-A-002	MAIN PRPLN ENG #1A RIGHT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1AMPE-A-003	MAIN PRPLN ENG #1A START AIR SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
1AMPE-S/W-002	MAIN PRPLN ENG #1A SW COOLING PUMP - SUCTION	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
1AMPE-S/W-001	MAIN PRPLN ENG #1A SW COOLING PUMP OVERBOARD	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1AMPE-S/W-003	MAIN PRPLN ENG #1A SW COOLING PUMP PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BMPE-F/O-001	MAIN PRPLN ENG #1B FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/O-002	MAIN PRPLN ENG #1B FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/O-003	MAIN PRPLN ENG #1B FUEL OIL RETURN	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/O-004	MAIN PRPLN ENG #1B FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-J/W-002	MAIN PRPLN ENG #1B JACKET WATER HEATER INLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
1BMPE-J/W-003	MAIN PRPLN ENG #1B JACKET WATER HEATER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
1BMPE-J/W-001	MAIN PRPLN ENG #1B JACKET WATER PUMP PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BMPE-A-001	MAIN PRPLN ENG #1B LEFT BANK AIR PRESSURE CA/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BMPE-L/O-001	MAIN PRPLN ENG #1B LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/O-002	MAIN PRPLN ENG #1B LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/O-003	MAIN PRPLN ENG #1B LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/O-005	MAIN PRPLN ENG #1B LUBE OIL FILTER TO OIL GALLERY	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
1BMPE-L/O-004	MAIN PRPLN ENG #1B LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/O-006	MAIN PRPLN ENG #1B LUBE OIL TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1BMPE-L/0-008	MAIN PRPLN ENG #1B PRELUBE OIL PUMP OUTLET	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
1BMPE-L/0-007	MAIN PRPLN ENG #1B PRELUBE OIL PUMP TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
1BMPE-A-002	MAIN PRPLN ENG #1B RIGHT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BMPE-A-003	MAIN PRPLN ENG #1B START AIR SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
1BMPE-S/W-002	MAIN PRPLN ENG #1B SW COOLING PUMP - SUCTION	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1BMPE-S/W-001	MAIN PRPLN ENG #1B SW COOLING PUMP OVERBOARD	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1BMPE-S/W-003	MAIN PRPLN ENG #1B SW COOLING PUMP PRESS GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-F/0-001	MAIN PRPLN ENG #2A FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-F/0-002	MAIN PRPLN ENG #2A FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-F/0-004	MAIN PRPLN ENG #2A FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-J/W-002	MAIN PRPLN ENG #2A JACKET WATER HEATER INLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
2AMPE-J/W-003	MAIN PRPLN ENG #2A JACKET WATER HEATER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
2AMPE-J/W-001	MAIN PRPLN ENG #2A JACKET WATER PUMP PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-A-001	MAIN PRPLN ENG #2A LEFT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-L/0-001	MAIN PRPLN ENG #2A LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2AMPE-L/O-002	MAIN PRPLN ENG #2A LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-L/O-003	MAIN PRPLN ENG #2A LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-L/O-005	MAIN PRPLN ENG #2A LUBE OIL FILTER TO OIL GALLERY	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
2AMPE-L/O-004	MAIN PRPLN ENG #2A LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-L/O-006	MAIN PRPLN ENG #2A LUBE OIL TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
2AMPE-L/O-008	MAIN PRPLN ENG #2A PRELUBE OIL PUMP OUTLET	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
2AMPE-L/O-007	MAIN PRPLN ENG #2A PRELUBE OIL PUMP TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
2AMPE-A-002	MAIN PRPLN ENG #2A RIGHT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-A-003	MAIN PRPLN ENG #2A START AIR SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
2AMPE-A-004	MAIN PRPLN ENG #2A START AIR SUPPLY PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-S/W-001	MAIN PRPLN ENG #2A SW COOLING PUMP OVERBOARD	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
2AMPE-S/W-003	MAIN PRPLN ENG #2A SW COOLING PUMP PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-S/W-002	MAIN PRPLN ENG #2A SW COOLING PUMP SUCTION	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		REPLACE	
2BMPE-F/O-001	MAIN PRPLN ENG #2B FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-F/O-002	MAIN PRPLN ENG #2B FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2BMPE-F/0-003	MAIN PRPLN ENG #2B FUEL OIL RETURN	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-F/0-004	MAIN PRPLN ENG #2B FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-J/W-002	MAIN PRPLN ENG #2B JACKET WATER HEATER INLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
2BMPE-J/W-003	MAIN PRPLN ENG #2B JACKET WATER HEATER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	1	TEFLON		PMS	
2BMPE-J/W-001	MAIN PRPLN ENG #2B JACKET WATER PUMP PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2BMPE-A-001	MAIN PRPLN ENG #2B LEFT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2BMPE-L/0-001	MAIN PRPLN ENG #2B LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-002	MAIN PRPLN ENG #2B LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-003	MAIN PRPLN ENG #2B LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-005	MAIN PRPLN ENG #2B LUBE OIL FILTER TO OIL GALLERY	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
2BMPE-L/0-004	MAIN PRPLN ENG #2B LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-006	MAIN PRPLN ENG #2B LUBE OIL TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	1 1/4	TEFLON		PMS	
2BMPE-L/0-008	MAIN PRPLN ENG #2B PRELUBE OIL PUMP OUTLET	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
2BMPE-L/0-007	MAIN PRPLN ENG #2B PRELUBE OIL PUMP TO FILTER	MAIN PROP	MAIN MACHINERY ROOM	5/8	TEFLON		PMS	
2BMPE-A-002	MAIN PRPLN ENG #2B RIGHT BANK AIR PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2BMPE-A-003	MAIN PRPLN ENG #2B START AIR SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
2BMPE-S/W-002	MAIN PRPLN ENG #2B SW COOLING PUMP - SUCTION	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2BMPE-S/W-001	MAIN PRPLN ENG #2B SW COOLING PUMP OVERBOARD	MAIN PROP	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2BMPE-S/W-003	MAIN PRPLN ENG #2B SW COOLING PUMP PRESSURE GAGE/XDCR	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1AMPE-V/P-001	MPDE #1A FILTER BOX VACUME PRESSURE SWITCH	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1AMPE-F/0-009	MPDE #1A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/0-010	MPDE #1A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/0-011	MPDE #1A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/0-012	MPDE #1A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/0-013	MPDE #1A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/0-014	MPDE #1A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/0-008	MPDE #1A SALMINI FILTER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-V/P-001	MPDE #1B FILTER BOX VACUME PRESSURE SWITCH	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BMPE-F/0-009	MPDE #1B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1BMPE-F/0-014	MPDE #1B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/0-010	MPDE #1B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/0-011	MPDE #1B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/0-012	MPDE #1B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/0-013	MPDE #1B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/0-008	MPDE #1B SALMINI FILTER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-V/P-001	MPDE #2A FILTER BOX VACUME PRESSURE SWITCH	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2AMPE-F/0-009	MPDE #2A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/0-010	MPDE #2A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/0-011	MPDE #2A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/0-012	MPDE #2A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/0-013	MPDE #2A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/0-014	MPDE #2A FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/0-008	MPDE #2A SALMINI FILTER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-V/P-001	MPDE #2B FILTER BOX VACUME PRESSURE SWITCH	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2BMPE-F/O-009	MPDE #2B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON'		PMS	
2BMPE-F/O-010	MPDE #2B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-011	MPDE #2B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-012	MPDE #2B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-013	MPDE #2B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-014	MPDE #2B FUEL OIL	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-008	MPDE #2B SALMINI FILTER OUTLET	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1BMPE-F/O-007	RETURN TO FUEL OIL COOLER	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2BMPE-F/O-007	RETURN TO FUEL OIL COOLER	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
1AMPE-F/O-007	RETURN TO FUEL OIL COOLER	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
2AMPE-F/O-007	RETURN TO FUEL OIL COOLER	MAIN PROP	MAIN MACHINERY ROOM	3/8	TEFLON		PMS	
MS-HYD-006	HYDRAULIC BRAKE SUPPLY - CENTERLINE AFT	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-004	HYDRAULIC BRAKE SUPPLY - CENTERLINE FWD	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-003	HYDRAULIC BRAKE SUPPLY - PORT AFT	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-005	HYDRAULIC BRAKE SUPPLY - PORT FWD	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
MS-HYD-002	HYDRAULIC BRAKE SUPPLY - STBD AFT	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-001	HYDRAULIC BRAKE SUPPLY - STBD FWD	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MGTG-L/O-003	ELECTROSTATIC VENT PRECIPITATOR	MMGTG	AUX MACHINERY ROOM	3	SYNTHETIC RUBBER		REPLACE	
MGTG-F/O-002	FUEL OIL INLET	MMGTG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
MGTG-F/O-004	FUEL OIL INLET	MMGTG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
MGTG-F/O-001	FUEL OIL INLET	MMGTG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-F/O-005	FUEL OIL INLET	MMGTG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
MGTG-F/O-003	FUEL OIL SUPPLY PRESSURE GAGE	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-L/O-001	LUBE OIL PRESSURE GAGE	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-L/O-002	LUBE OIL PRESSURE XDCR	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-L/O-004	LUBE OIL SUPPLY FROM FILTER	MMGTG	AUX MACHINERY ROOM	3/8	TEFLON		PMS	
MGTG-A-001	MINESWEEP GAS TURBINE MANIFOLD AIR ASSIST	MMGTG	AUX MACHINERY ROOM	3/8	SYNTHETIC RUBBER		PMS	
MGTG-S/W-001	S/W COOLING PUMP DISCHARGE	MMGTG	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
MGTG-S/W-002	S/W COOLING PUMP DISCHARGE GAGE	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
MGTG-S/W-003	S/W COOLING PUMP SUCTION	MMGTG	AUX MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
MGTG-WW-001	WATER WASH INLET	MMGTG	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
1OWP-O/W-001	OILY WASTE TRANSFER PUMP #1 DISCHARGE	OILY WASTE	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
1OWP-O/W-002	OILY WASTE TRANSFER PUMP #1 SUCTION	OILY WASTE	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
2OWP-O/W-001	OILY WASTE TRANSFER PUMP #2 DISCHARGE	OILY WASTE	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
2OWP-O/W-002	OILY WASTE TRANSFER PUMP #2 SUCTION	OILY WASTE	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
OWP-O/W-001	OILY WASTE TRANSFER PUMP DISCHARGE	OILY WASTE	OW SEP ROOM	2 1/2	SYNTHETIC RUBBER		PMS	
OWP-O/W-002	OILY WASTE TRANSFER PUMP SUCTION	OILY WASTE	OW SEP ROOM	2 1/2	SYNTHETIC RUBBER		PMS	
UOWP-O/W-001	USED LUBE OIL PUMP DISCHARGE	OILY WASTE	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
UOWP-O/W-002	USED LUBE OIL PUMP SUCTION	OILY WASTE	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-007	FAIRLEAD SHEAVE HYDRAULIC MOTOR - DRAIN	PORT STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-006	FAIRLEAD SHEAVE HYDRAULIC MOTOR - LEFT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-001	FAIRLEAD SHEAVE HYDRAULIC MOTOR - RIGHT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-002	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - DRAIN	PORT STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-008	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - LEFT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-009	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - RIGHT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PSC-HYD-010	JBL CYLINDER - LOWER	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-003	JBL CYLINDER - RAISE	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-005	JBL CYLINDER SUPPLY - LOWER	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-004	JBL CYLINDER SUPPLY - RAISE	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-011	LUFF CYLINDER - RAISE	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-012	LUFF CYLINDER ROD - LOWER	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PW-P/W-001	POTABLE WATER MAIN PRESSURE SWITCH	POTABLE WATER	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1PW-P/W-001	POTABLE WATER PUMP #1 DISCHARGE	POTABLE WATER	AUX MACHINERY ROOM	1	TEFLON		PMS	
1PW-P/W-002	POTABLE WATER PUMP #1 SUCTION	POTABLE WATER	AUX MACHINERY ROOM	1 1/4	TEFLON		PMS	
2PW-P/W-001	POTABLE WATER PUMP #2 DISCHARGE	POTABLE WATER	AUX MACHINERY ROOM	1	TEFLON		PMS	
2PW-P/W-002	POTABLE WATER PUMP #2 SUCTION	POTABLE WATER	AUX MACHINERY ROOM	1 1/4	TEFLON		PMS	
PRG-A-001	(PORT) AIR BRAKE CTRL SUPPLY #1	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-A-002	(PORT) AIR BRAKE CTRL SUPPLY #2	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-A-003	(PORT) AIR CLUTCH CTRL SUPPLY #1	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-A-004	(PORT) AIR CLUTCH CTRL SUPPLY #2	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PRG-L/O-007	(PORT) ATTACH PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-008	(PORT) ATTACH PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-009	(PORT) ATTACH PUMP SUCTION GAGE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-010	(PORT) HMBR TO DUMP VALVE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-A-005	(PORT) LIGHT LOAD AIR CLUTCH CTRL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-A-007	(PORT) LIGHT LOAD ROTARY UNION AIR SUPPLY #1	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-A-008	(PORT) LIGHT LOAD ROTARY UNION AIR SUPPLY #2	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-L/O-011	(PORT) LUBE OIL FROM REDUCTION GEAR TO COOLER	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-A-006	(PORT) ROTARY UNION AIR SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
PRG-L/O-005	(PORT) STANDBY PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-006	(PORT) STANDBY PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-003	(PORT) SUMP LUBE OIL SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-004	(PORT) SUMP LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-002	(PORT) THRUST BEARING LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-001	(PORT) THRUST BEARING LUBE OIL VENT/RETURN	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PVP-L/O-001	(PORT) VENT TO PRECIPITATOR	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
SRG-A-001	(STBD) AIR BRAKE CTRL SUPPLY #1	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-A-002	(STBD) AIR BRAKE CTRL SUPPLY #2	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-A-003	(STBD) AIR CLUTCH CTRL SUPPLY #1	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-A-004	(STBD) AIR CLUTCH CTRL SUPPLY #2	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-L/O-007	(STBD) ATTACH PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-008	(STBD) ATTACH PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-009	(STBD) ATTACH PUMP SUCTION GAGE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-010	(STBD) HMBR TO DUMP VALVE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-A-005	(STBD) LIGHT LOAD AIR CLUTCH CTRL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-A-007	(STBD) LIGHT LOAD ROTARY UNION AIR SUPPLY #1	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-A-008	(STBD) LIGHT LOAD ROTARY UNION AIR SUPPLY #2	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-L/O-011	(STBD) LUBE OIL FROM REDUCTION GEAR TO COOLER	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-A-006	(STBD) ROTARY UNION AIR SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER		PMS	
SRG-L/O-005	(STBD) STANDBY PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SRG-L/O-006	(STBD) STANDBY PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-003	(STBD) SUMP LUBE OIL SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-004	(STBD) SUMP LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-002	(STBD) THRUST BEARING LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-001	(STBD) THRUST BEARING LUBE OIL VENT/RETURN	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SVP-L/O-001	(STBD) VENT TO PRECIPITATOR	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	
REF-S/W-001	CONDENSOR #1 COOLER DRAIN	REFERIGERATION	1-72-0-E	1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-002	CONDENSOR #1 COOLER VENT	REFERIGERATION	1-72-0-E	1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-003	CONDENSOR #1 S/W OVERBOARD	REFERIGERATION	1-72-0-E	2 1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-004	CONDENSOR #1 S/W SUPPLY	REFERIGERATION	1-72-0-E	2 1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-005	CONDENSOR #2 COOLER DRAIN	REFERIGERATION	1-72-0-E	1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-006	CONDENSOR #2 COOLER VENT	REFERIGERATION	1-72-0-E	1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-007	CONDENSOR #2 S/W OVERBOARD	REFERIGERATION	1-72-0-E	2 1/2	SYNTHETIC RUBBER		PMS	
REF-S/W-008	CONDENSOR #2 S/W SUPPLY	REFERIGERATION	1-72-0-E	2 1/2	SYNTHETIC RUBBER		PMS	
R/O-SW-002	R/O BRINE WATER OVERBOARD	REVERSE OSMOSIS	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
R/O-SW-001	R/O SEAWATER INLET	REVERSE OSMOSIS	AUX MACHINERY ROOM	1	SYNTHETIC RUBBER		PMS	
R/O-P-001	R/O UNIT PERMEATE OUTLET	REVERSE OSMOSIS	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
1ASW-S/W-001	ASW PUMP #1 DISCHARGE	SEAWATER	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
1ASW-S/W-002	ASW PUMP #1 SUCTION	SEAWATER	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2ASW-S/W-001	ASW PUMP #2 DISCHARGE	SEAWATER	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2ASW-S/W-002	ASW PUMP #2 SUCTION	SEAWATER	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
PASW-S/W-001	PORT AUX S/W SUCTION STRAINER D/P GAGE INLET	SEAWATER	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
PASW-S/W-002	PORT AUX S/W SUCTION STRAINER D/P GAGE OUTLET	SEAWATER	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
SASW-S/W-001	STBD AUX S/W SUCTION STRAINER D/P GAGE INLET	SEAWATER	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
SASW-S/W-002	STBD AUX S/W SUCTION STRAINER D/P GAGE OUTLET	SEAWATER	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
PST-A-001	PORT STERN TUBE SEAL	SHAFT SEAL	MAIN MACHINERY ROOM	5/8	SYNTHETIC RUBBER		PMS	
SST-A-001	STBD STERN TUBE SEAL	SHAFT SEAL	MAIN MACHINERY ROOM	5/8	SYNTHETIC RUBBER		PMS	
1ASDG-V/P-001	SSDG #1A FILTER BOX VACUME PRESSURE SWITCH	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1ASDG-F/O-001	SSDG #1A FUEL OIL INLET PRESSURE GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1ASDG-F/O-002	SSDG #1A FUEL OIL OUTLET PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-F/O-003	SSDG #1A FUEL OIL RETURN	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-F/O-004	SSDG #1A FUEL OIL SUPPLY	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-J/W-001	SSDG #1A JACKET WATER BYPASS	SSDG	AUX MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
1ASDG-J/W-002	SSDG #1A JACKET WATER EXPANSION TANK VENT	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
1ASDG-J/W-007	SSDG #1A JACKET WATER HEATER INLET	SSDG	AUX MACHINERY ROOM	1	TEFLON		PMS	
1ASDG-J/W-008	SSDG #1A JACKET WATER HEATER OUTLET	SSDG	AUX MACHINERY ROOM	1	TEFLON		PMS	
1ASDG-J/W-003	SSDG #1A JACKET WATER PUMP PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1ASDG-J/W-004	SSDG #1A JACKET WATER RETURN TO HEAT EXCHANGER	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1ASDG-J/W-005	SSDG #1A JACKET WATER SUPPLY FROM EXPANSION TANK	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
1ASDG-J/W-006	SSDG #1A JACKET WATER SUPPLY FROM HEAT EXCHANGER	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1ASDG-A-001	SSDG #1A LEFT BANK AIR PRESSURE GAGE/XDCR	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1ASDG-L/O-001	SSDG #1A LUBE OIL COOLING PUMP PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-002	SSDG #1A LUBE OIL FILTER PRESSURE IN XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-003	SSDG #1A LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1ASDG-L/O-004	SSDG #1A LUBE OIL GALLERY PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-005	SSDG #1A PRELUBE OIL PUMP INLET	SSDG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
1ASDG-L/O-006	SSDG #1A PRELUBE OIL PUMP OUTLET TO FILTER	SSDG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
1ASDG-A-002	SSDG #1A RIGHT BANK AIR PRESSURE GAGE/XDCR	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1ASDG-A-003	SSDG #1A START AIR SUPPLY	SSDG	AUX MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
1ASDG-S/W-002	SSDG #1A SW COOLING PUMP OVERBOARD	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1ASDG-S/W-003	SSDG #1A SW COOLING PUMP PRESSURE GAGE/XDCR	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1ASDG-S/W-001	SSDG #1A SW COOLING PUMP SUCTION	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1BSDG-V/P-001	SSDG #1B FILTER BOX VACUME PRESSURE SWITCH	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BSDG-F/O-001	SSDG #1B FUEL OIL INLET PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-002	SSDG #1B FUEL OIL OUTLET PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-003	SSDG #1B FUEL OIL RETURN	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-004	SSDG #1B FUEL OIL SUPPLY	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-J/W-001	SSDG #1B JACKET WATER BYPASS	SSDG	AUX MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
1BSDG-J/W-002	SSDG #1B JACKET WATER EXPANSION TANK VENT	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1BSDG-J/W-007	SSDG #1B JACKET WATER HEATER INLET	SSDG	AUX MACHINERY ROOM	1	TEFLON		PMS	
1BSDG-J/W-008	SSDG #1B JACKET WATER HEATER OUTLET	SSDG	AUX MACHINERY ROOM	1	TEFLON		PMS	
1BSDG-J/W-003	SSDG #1B JACKET WATER PUMP PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BSDG-J/W-004	SSDG #1B JACKET WATER RETURN TO HEAT EXCHANGER	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1BSDG-J/W-005	SSDG #1B JACKET WATER SUPPLY FROM EXPANSION TANK	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
1BSDG-J/W-006	SSDG #1B JACKET WATER SUPPLY FROM HEAT EXCHANGER	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1BSDG-A-001	SSDG #1B LEFT BANK AIR PRESSURE GAGE/XDCR	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BSDG-L/O-001	SSDG #1B LUBE OIL COOLING PUMP PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-002	SSDG #1B LUBE OIL FILTER PRESSURE IN XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-003	SSDG #1B LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-004	SSDG #1B LUBE OIL GALLERY PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-005	SSDG #1B PRELUBE OIL PUMP INLET	SSDG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
1BSDG-L/O-006	SSDG #1B PRELUBE OIL PUMP OUTLET TO FILTER	SSDG	AUX MACHINERY ROOM	3/4	TEFLON		PMS	
1BSDG-A-002	SSDG #1B RIGHT BANK AIR PRESSURE GAGE/XDCR	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BSDG-A-003	SSDG #1B START AIR SUPPLY	SSDG	AUX MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1BSDG-S/W-001	SSDG #1B SW COOLING PUMP OVERBOARD	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
1BSDG-S/W-003	SSDG #1B SW COOLING PUMP PRESSURE GAGE/XDCR	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
1BSDG-S/W-002	SSDG #1B SW COOLING PUMP SUCTION	SSDG	AUX MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
2SDG-V/P-001	SSDG #2 AIR INLET FILTER BOX VACUME PRESSURE SWITCH	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2SDG-F/O-001	SSDG #2 FUEL OIL INLET PRESSURE XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-F/O-002	SSDG #2 FUEL OIL OUTLET PRESSURE XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-F/O-003	SSDG #2 FUEL OIL RETURN	SSDG	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-F/O-004	SSDG #2 FUEL OIL SUPPLY	SSDG	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-J/W-007	SSDG #2 JACKET WATER \HEATER INLET	SSDG	MAIN MACHINERY ROOM	1	TEFLON		PMS	
2SDG-J/W-001	SSDG #2 JACKET WATER BYPASS	SSDG	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER		PMS	
2SDG-J/W-008	SSDG #2 JACKET WATER HEATER OUTLET	SSDG	MAIN MACHINERY ROOM	1	TEFLON		PMS	
2SDG-J/W-002	SSDG #2 JACKET WATER PRESSURE GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2SDG-J/W-003	SSDG #2 JACKET WATER RETURN TO HEAT EXCHANGER	SSDG	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
2SDG-J/W-004	SSDG #2 JACKET WATER SUPPLY FROM EXPANSION TANK	SSDG	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
2SDG-J/W-005	SSDG #2 JACKET WATER SUPPLY FROM HEAT EXCHANGER	SSDG	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2SDG-J/W-006	SSDG #2 JACKET WATER VENT TO EXPANSION TANK	SSDG	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER		PMS	
2SDG-A-001	SSDG #2 LEFT BANK AIR PRESSURE GAGE/XDCR	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2SDG-L/O-001	SSDG #2 LUBE OIL COOLING PUMP PRESSURE OUT XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-002	SSDG #2 LUBE OIL FILTER PRESSURE IN XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-003	SSDG #2 LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-004	SSDG #2 LUBE OIL GALLERY PRESSURE XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-005	SSDG #2 PRELUBE OIL PUMP INLET	SSDG	MAIN MACHINERY ROOM	3/4	TEFLON		PMS	
2SDG-L/O-006	SSDG #2 PRELUBE OIL PUMP OUTLET TO FILTER	SSDG	MAIN MACHINERY ROOM	3/4	TEFLON		PMS	
2SDG-A-002	SSDG #2 RIGHT BANK AIR PRESSURE GAGE/XDCR	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2SDG-A-003	SSDG #2 START AIR SUPPLY	SSDG	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER		PMS	
2SDG-S/W-001	SSDG #2 SW COOLING PUMP OVERBOARD	SSDG	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	
2SDG-S/W-003	SSDG #2 SW COOLING PUMP PRESSURE GAGE/XDCR	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER		PMS	
2SDG-S/W-002	SSDG #2 SW COOLING PUMP SUCTION	SSDG	MAIN MACHINERY ROOM	4	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
SSC-HYD-007	FAIRLEAD SHEAVE HYDRAULIC MOTOR - DRAIN	STBD STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-006	FAIRLEAD SHEAVE HYDRAULIC MOTOR - LEFT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SSC-HYD-001	FAIRLEAD SHEAVE HYDRAULIC MOTOR - RIGHT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-002	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - DRAIN	STBD STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-008	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - LEFT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-009	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - RIGHT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-010	JBL CYLINDER - LOWER	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-003	JBL CYLINDER - RAISE	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-005	JBL CYLINDER SUPPLY - LOWER	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-004	JBL CYLINDER SUPPLY - RAISE	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-011	LUFF CYLINDER - RAISE	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-012	LUFF CYLINDER ROD - LOWER	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSTR-HYD-001	PORT PEDESTAL MANIFOLD TO RAM	STEERING	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSTR-HYD-002	PORT PEDESTAL MANIFOLD TO TANK	STEERING	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SSTR-HYD-001	STBD PEDESTAL MANIFOLD TO RAM	STEERING	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSTR-HYD-002	STBD PEDESTAL MANIFOLD TO TANK	STEERING	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-004	CENTER BOOM HOSE REEL	UCHS	02 LVL FR76(S)	1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
UCHS-HYD-001	HYDRAULIC PUMP SUCTION	UCHS WINCH	UCHS MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-005	UCHS CABLE RAM TENSIONER PRIMARY AIR SUPPLY	UCHS WINCH	02 LVL FR80(P)	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-003	UCHS CABLE RAM TENSIONER SECONDARY AIR SUPPLY	UCHS WINCH	02 LVL FR80(P)	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-001	UCHS WINCH INLET	UCHS WINCH	UCHS MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-002	UCHS WINCH OUTLET	UCHS WINCH	UCHS MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
UCHS-O/W-001	UCHS WINCH SUMP PUMP INLET	UCHS WINCH	UCHS MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-O/W-002	UCHS WINCH SUMP PUMP OUTLET	UCHS WINCH	UCHS MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
1WHP-S/W-001	WASTE HEAT PUMP #1 DISCHARGE	WASTE HEAT	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
1WHP-S/W-002	WASTE HEAT PUMP #1 SUCTION	WASTE HEAT	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2WHP-F/W-001	WASTE HEAT PUMP #2 DISCHARGE	WASTE HEAT	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
2WHP-F/W-002	WASTE HEAT PUMP #2 SUCTION	WASTE HEAT	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
3WHP-S/W-001	WASTE HEAT PUMP #3 DISCHARGE	WASTE HEAT	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014
3WHP-S/W-002	WASTE HEAT PUMP #3 SUCTION	WASTE HEAT	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER		PMS	INSTALLED 15 YEARS. SAT. IAW MRC/MIP 5000/014

PROPOSED MCM CLASS CRITICAL HOSE LIST

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
AB-HYD-001	HYDRAULIC BRAKE SUPPLY - AFT	ACOUSTIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
AB-HYD-002	HYDRAULIC BRAKE SUPPLY - FWD	ACOUSTIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-004	(PORT) OPERATING CYLINDER-PISTON END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-006	(PORT) OPERATING CYLINDER-ROD END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-002	(STBD) OPERATING CYLINDER-PISTON END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-008	(STBD) OPERATING CYLINDER-ROD END	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-001	HYDRAULIC POWER PACK PORT X1	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-005	HYDRAULIC POWER PACK PORT X2	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-007	HYDRAULIC POWER PACK PORT X3	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
BTH-HYD-003	HYDRAULIC POWER PACK PORT X4	BOWTHRUSTER	BOW THRUSTER ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-008	(PORT) ATTACHED PUMP DISCHARGE	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-007	(PORT) ATTACHED PUMP SUCTION	CPP	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-020	(PORT) HOPM DISCHARGE TO O.D. BOX	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-024	(PORT) HOPM DISCHARGE TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-023	(PORT) HOPM RETURN OIL BACK PRESSURE GAGE	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

(ATTACHMENT B)

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PCPP-HYD-021	(PORT) HOPM RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-019	(PORT) HOPM STANDBY PUMP STRAINER D/P GAGE INLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-015	(PORT) HOPM STANDBY PUMP STRAINER D/P GAGE OUTLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-016	(PORT) HOPM SUCTION	CPP	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-022	(PORT) HOPM SUPPLY FROM ATTACH PUMP	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-012	(PORT) OIL DISTRIBUTION BOX DRAIN TO SUMP #1	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-013	(PORT) OIL DISTRIBUTION BOX DRAIN TO SUMP #2	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-014	(PORT) OIL DISTRIBUTION BOX DRAIN TO SUMP #3	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-002	(PORT) OIL DISTRIBUTION BOX L.P. SEAL DRAIN TO SUMP	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-009	(PORT) OIL DISTRIBUTION BOX RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-011	(PORT) OIL DISTRIBUTION BOX SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-010	(PORT) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-025	(PORT) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-001	(PORT) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-006	(PORT) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PCPP-HYD-003	(PORT) PITCH CONTROL MANIFOLD SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCPP-HYD-017	(PORT) VENT	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-008	(STBD) ATTACHED PUMP DISCHARGE	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-007	(STBD) ATTACHED PUMP SUCTION	CPP	MAIN MACHINERY ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-020	(STBD) DISCHARGE TO O.D. BOX	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-024	(STBD) HOPM DISCHARGE TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-022	(STBD) HOPM SUPPLY FROM ATTACH PUMP	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-012	(STBD) OIL DISTRIBUTION BOX DRAIN TO SUMP #1	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-013	(STBD) OIL DISTRIBUTION BOX DRAIN TO SUMP #2	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-014	(STBD) OIL DISTRIBUTION BOX DRAIN TO SUMP #3	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-002	(STBD) OIL DISTRIBUTION BOX L.P. SEAL DRAIN TO SUMP	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-009	(STBD) OIL DISTRIBUTION BOX RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-011	(STBD) OIL DISTRIBUTION BOX SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-025	(STBD) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-010	(STBD) OIL DISTRIBUTION BOX TO PITCH CONTROL MANIFOLD	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SCPP-HYD-001	(STBD) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-006	(STBD) PITCH CONTROL MANIFOLD-FROM O.D. BOX	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-003	(STBD) PITCH CONTROL MANIFOLD-SUPPLY FROM HOPM	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-023	(STBD) RETURN OIL BACK PRESSURE GAGE	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-021	(STBD) RETURN TO SUMP	CPP	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-019	(STBD) STANDBY PUMP STRAINER D/P GAGE INLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-015	(STBD) STANDBY PUMP STRAINER D/P GAGE OUTLET	CPP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-016	(STBD) SUCTION	CPP	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SCPP-HYD-017	(STBD) VENT	CPP	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-003	(PORT) CRANE PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-004	(PORT) CRANE PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-001	(PORT) CRANE PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
PCP-HYD-002	(PORT) CRANE PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-001	(PORT) HOPM MANIFOLD-DRAIN (LR1)	DECK MACHINERY	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-002	(PORT) HOPM MANIFOLD-MS WINCH PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PDM-HYD-003	(PORT) HOPM MANIFOLD-MS WINCH PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-004	(PORT) HOPM MANIFOLD-MS WINCH PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-005	(PORT) HOPM MANIFOLD-MS WINCH SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-006	(PORT) HOPM MANIFOLD-RETURN (R1)	DECK MACHINERY	STEERING GEAR ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-007	(PORT) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-008	(PORT) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-009	(PORT) HOPM MANIFOLD-STERN CRANE PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-016	(PORT) HOPM MANIFOLD-STERN CRANE SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-010	(PORT) HOPM MANIFOLD-SUCTION #1	DECK MACHINERY	STEERING GEAR ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-011	(PORT) HOPM MANIFOLD-SUCTION #2	DECK MACHINERY	STEERING GEAR ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-012	(PORT) HOPM MANIFOLD-SUPPLY (P1)	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-013	(PORT) HOPM MANIFOLD-SUPPLY (P2)	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-014	(PORT) HOPM MANIFOLD-SUPPLY (SPP1)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-015	(PORT) HOPM MANIFOLD-SUPPLY (SPP2)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PDM-HYD-017	(PORT) SUPPLY	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PWP-HYD-001	(PORT) WINCH PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-004	(PORT) WINCH PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-002	(PORT) WINCH PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
PWP-HYD-003	(PORT) WINCH PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-001	(STBD) CRANE PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-002	(STBD) CRANE PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-003	(STBD) CRANE PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SCP-HYD-004	(STBD) CRANE PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-001	(STBD) HOPM MANIFOLD-DRAIN (LR2)	DECK MACHINERY	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-002	(STBD) HOPM MANIFOLD-MAG CBL REEL PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-003	(STBD) HOPM MANIFOLD-MAG CBL REEL PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-004	(STBD) HOPM MANIFOLD-MAG CBL REEL PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-005	(STBD) HOPM MANIFOLD-MAG CBL REEL SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-006	(STBD) HOPM MANIFOLD-RETURN (R2)	DECK MACHINERY	STEERING GEAR ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-007	(STBD) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH A	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SDM-HYD-008	(STBD) HOPM MANIFOLD-STBD CRANE PRESSURE SWITCH B	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-009	(STBD) HOPM MANIFOLD-STERN CRANE PRESSURE GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-010	(STBD) HOPM MANIFOLD-STERN CRANE SERVO GAGE	DECK MACHINERY	STEERING GEAR ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-011	(STBD) HOPM MANIFOLD-SUCTION #1	DECK MACHINERY	STEERING GEAR ROOM	3	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-012	(STBD) HOPM MANIFOLD-SUCTION #2	DECK MACHINERY	STEERING GEAR ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-013	(STBD) HOPM MANIFOLD-SUPPLY (P3)	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-014	(STBD) HOPM MANIFOLD-SUPPLY (P4)	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-015	(STBD) HOPM MANIFOLD-SUPPLY (SPP3)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-016	(STBD) HOPM MANIFOLD-SUPPLY (SPP4)	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-017	(STBD) SUPPLY	DECK MACHINERY	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-001	(STBD) WINCH PUMP BOOST PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-004	(STBD) WINCH PUMP CASE DRAIN	DECK MACHINERY	STEERING GEAR ROOM	3/8	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-002	(STBD) WINCH PUMP DISCHARGE	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
SWP-HYD-003	(STBD) WINCH PUMP SUCTION	DECK MACHINERY	STEERING GEAR ROOM	1 1/4	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-008	MINESWEEP WINCH CONTROL STATION CONNECTION SP1	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
DM-HYD-001	MINESWEEP WINCH CONTROL STATION CONNECTION SP4	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-002	MINESWEEP WINCH CONTROL STATION CONNECTION X1A	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-003	MINESWEEP WINCH CONTROL STATION CONNECTION X1B	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-004	MINESWEEP WINCH CONTROL STATION CONNECTION X4A	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-005	MINESWEEP WINCH CONTROL STATION CONNECTION X4B	DECK MACHINERY	MAIN DECK	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-006	MINESWEEP WINCH MANIFOLD RETURN	DECK MACHINERY	MAIN DECK	1	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-007	MINESWEEP WINCH MANIFOLD SUPPLY	DECK MACHINERY	MAIN DECK	1	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-009	MN MNV HYDRAULIC SERVICE LOW PRESSURE SUPPLY	DECK MACHINERY	MNS MNT SHOP	1/2	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-010	MN MNV HYDRAULIC SERVICE RETURN	DECK MACHINERY	MNS MNT SHOP	1	SYNTHETIC RUBBER	144	REPLACE	
DM-HYD-011	MN MNV HYDRAULIC SERVICE SUPPLY	DECK MACHINERY	MNS MNT SHOP	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-018	SCND MNV HYDRAULIC SERVICE LOW PRESSURE SUPPLY	DECK MACHINERY	SWP GR STRM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-019	SCND MNV HYDRAULIC SERVICE RETURN	DECK MACHINERY	SWP GR STRM	1	SYNTHETIC RUBBER	144	REPLACE	
SDM-HYD-020	SCND MNV HYDRAULIC SERVICE SUPPLY	DECK MACHINERY	SWP GR STRM	1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-001	FUEL OIL PURIFIER - INLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-002	FUEL OIL PURIFIER BYPASS	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
FOP-F/O-004	FUEL OIL PURIFIER HEATER INLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-005	FUEL OIL PURIFIER HEATER - OUTLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOP-F/O-003	FUEL OIL PURIFIER OUTLET	FUEL OIL PURIFER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOT-F/O-001	FUEL OIL TRANSFER PUMP INLET	FUEL OIL TRANSFER	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
FOT-F/O-002	FUEL OIL TRANSFER PUMP OUTLET	FUEL OIL TRANSFER	AUX MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-001	LUBE OIL PURIFIER DISCHARGE	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
LOP-O/W-001	LUBE OIL PURIFIER PAN DRAIN	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-002	LUBE OIL PURIFIER RETURN FROM HEATER	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-003	LUBE OIL PURIFIER SUCTION	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
LOP-L/O-004	LUBE OIL PURIFIER SUPPLY TO HEATER	LUBE OIL PURIFIER	MAIN MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
MCR-HYD-001	HYDRAULIC BRAKE SUPPLY - AFT	MAGNETIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MCR-HYD-002	HYDRAULIC BRAKE SUPPLY - FWD	MAGNETIC CABLE REEL	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-F/O-001	MAIN PRPLN ENG #1A FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-F/O-002	MAIN PRPLN ENG #1A FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-F/O-004	MAIN PRPLN ENG #1A FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1AMPE-L/0-001	MAIN PRPLN ENG #1A LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-002	MAIN PRPLN ENG #1A LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-003	MAIN PRPLN ENG #1A LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1AMPE-L/0-004	MAIN PRPLN ENG #1A LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/0-001	MAIN PRPLN ENG #1B FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/0-002	MAIN PRPLN ENG #1B FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/0-003	MAIN PRPLN ENG #1B FUEL OIL RETURN	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-F/0-004	MAIN PRPLN ENG #1B FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/0-001	MAIN PRPLN ENG #1B LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/0-002	MAIN PRPLN ENG #1B LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/0-003	MAIN PRPLN ENG #1B LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BMPE-L/0-004	MAIN PRPLN ENG #1B LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-F/0-001	MAIN PRPLN ENG #2A FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-F/0-002	MAIN PRPLN ENG #2A FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-F/0-004	MAIN PRPLN ENG #2A FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2AMPE-L/0-001	MAIN PRPLN ENG #2A LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-L/0-002	MAIN PRPLN ENG #2A LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-L/0-003	MAIN PRPLN ENG #2A LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2AMPE-L/0-004	MAIN PRPLN ENG #2A LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-F/0-001	MAIN PRPLN ENG #2B FUEL OIL INLET PRESSURE GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-F/0-002	MAIN PRPLN ENG #2B FUEL OIL OUTLET PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-F/0-003	MAIN PRPLN ENG #2B FUEL OIL RETURN	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-F/0-004	MAIN PRPLN ENG #2B FUEL OIL SUPPLY	MAIN PROP	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-001	MAIN PRPLN ENG #2B LUBE OIL CLG. PUMP PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-002	MAIN PRPLN ENG #2B LUBE OIL FILTER PRESSURE IN XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-003	MAIN PRPLN ENG #2B LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2BMPE-L/0-004	MAIN PRPLN ENG #2B LUBE OIL GALLERY PRESSURE XDCR/GAGE	MAIN PROP	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-006	HYDRAULIC BRAKE SUPPLY - CENTERLINE AFT	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-004	HYDRAULIC BRAKE SUPPLY - CENTERLINE FWD	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-003	HYDRAULIC BRAKE SUPPLY - PORT AFT	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
MS-HYD-005	HYDRAULIC BRAKE SUPPLY - PORT FWD	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-002	HYDRAULIC BRAKE SUPPLY - STBD AFT	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MS-HYD-001	HYDRAULIC BRAKE SUPPLY - STBD FWD	MINESWEEP WINCH	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
MGTG-F/O-001	FUEL OIL INLET	MMGTG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-F/O-003	FUEL OIL SUPPLY PRESSURE GAGE	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-L/O-001	LUBE OIL PRESSURE GAGE	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
MGTG-L/O-002	LUBE OIL PRESSURE XDCR	MMGTG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
UOWP-O/W-001	USED LUBE OIL PUMP DISCHARGE	OILY WASTE	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
UOWP-O/W-002	USED LUBE OIL PUMP SUCTION	OILY WASTE	AUX MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-007	FAIRLEAD SHEAVE HYDRAULIC MOTOR - DRAIN	PORT STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-006	FAIRLEAD SHEAVE HYDRAULIC MOTOR - LEFT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-001	FAIRLEAD SHEAVE HYDRAULIC MOTOR - RIGHT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-002	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - DRAIN	PORT STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-008	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - LEFT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-009	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - RIGHT	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	

(ATTACHMENT B)

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PSC-HYD-010	JBL CYLINDER - LOWER	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-003	JBL CYLINDER - RAISE	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-005	JBL CYLINDER SUPPLY - LOWER	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-004	JBL CYLINDER SUPPLY - RAISE	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-011	LUFF CYLINDER - RAISE	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSC-HYD-012	LUFF CYLINDER ROD - LOWER	PORT STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-007	(PORT) ATTACH PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-008	(PORT) ATTACH PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-009	(PORT) ATTACH PUMP SUCTION GAGE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-010	(PORT) HMBR TO DUMP VALVE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-011	(PORT) LUBE OIL FROM REDUCTION GEAR TO COOLER	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-005	(PORT) STANDBY PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-006	(PORT) STANDBY PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-003	(PORT) SUMP LUBE OIL SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-004	(PORT) SUMP LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
PRG-L/O-002	(PORT) THRUST BEARING LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
PRG-L/O-001	(PORT) THRUST BEARING LUBE OIL VENT/RETURN	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-007	(STBD) ATTACH PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-008	(STBD) ATTACH PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-009	(STBD) ATTACH PUMP SUCTION GAGE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-010	(STBD) HMBR TO DUMP VALVE	REDUCTION GEAR	MAIN MACHINERY ROOM	1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-011	(STBD) LUBE OIL FROM REDUCTION GEAR TO COOLER	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-005	(STBD) STANDBY PUMP DISCHARGE	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-006	(STBD) STANDBY PUMP SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-003	(STBD) SUMP LUBE OIL SUCTION	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-004	(STBD) SUMP LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	2 1/2	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-002	(STBD) THRUST BEARING LUBE OIL SUPPLY	REDUCTION GEAR	MAIN MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SRG-L/O-001	(STBD) THRUST BEARING LUBE OIL VENT/RETURN	REDUCTION GEAR	MAIN MACHINERY ROOM	2	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-F/O-001	SSDG #1A FUEL OIL INLET PRESSURE GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-F/O-002	SSDG #1A FUEL OIL OUTLET PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
1ASDG-F/O-003	SSDG #1A FUEL OIL RETURN	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-F/O-004	SSDG #1A FUEL OIL SUPPLY	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-001	SSDG #1A LUBE OIL COOLING PUMP PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-002	SSDG #1A LUBE OIL FILTER PRESSURE IN XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-003	SSDG #1A LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1ASDG-L/O-004	SSDG #1A LUBE OIL GALLERY PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-001	SSDG #1B FUEL OIL INLET PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-002	SSDG #1B FUEL OIL OUTLET PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-003	SSDG #1B FUEL OIL RETURN	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-F/O-004	SSDG #1B FUEL OIL SUPPLY	SSDG	AUX MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-001	SSDG #1B LUBE OIL COOLING PUMP PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-002	SSDG #1B LUBE OIL FILTER PRESSURE IN XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-003	SSDG #1B LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
1BSDG-L/O-004	SSDG #1B LUBE OIL GALLERY PRESSURE XDCR/GAGE	SSDG	AUX MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-F/O-001	SSDG #2 FUEL OIL INLET PRESSURE XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
2SDG-F/O-002	SSDG #2 FUEL OIL OUTLET PRESSURE XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-F/O-003	SSDG #2 FUEL OIL RETURN	SSDG	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-F/O-004	SSDG #2 FUEL OIL SUPPLY	SSDG	MAIN MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-001	SSDG #2 LUBE OIL COOLING PUMP PRESSURE OUT XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-002	SSDG #2 LUBE OIL FILTER PRESSURE IN XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-003	SSDG #2 LUBE OIL FILTER PRESSURE OUT XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
2SDG-L/O-004	SSDG #2 LUBE OIL GALLERY PRESSURE XDCR/GAGE	SSDG	MAIN MACHINERY ROOM	1/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-007	FAIRLEAD SHEAVE HYDRAULIC MOTOR - DRAIN	STBD STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-006	FAIRLEAD SHEAVE HYDRAULIC MOTOR - LEFT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-001	FAIRLEAD SHEAVE HYDRAULIC MOTOR - RIGHT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-002	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - DRAIN	STBD STERN CRANE	MAIN DECK	3/8	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-008	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - LEFT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-009	FAIRLEAD SHEAVE HYDRAULIC MOTOR SUPPLY - RIGHT	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-010	JBL CYLINDER - LOWER	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-003	JBL CYLINDER - RAISE	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
SSC-HYD-005	JBL CYLINDER SUPPLY - LOWER	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-004	JBL CYLINDER SUPPLY - RAISE	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-011	LUFF CYLINDER - RAISE	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSC-HYD-012	LUFF CYLINDER ROD - LOWER	STBD STERN CRANE	MAIN DECK	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSTR-HYD-001	PORT PEDESTAL MANIFOLD TO RAM	STEERING	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
PSTR-HYD-002	PORT PEDESTAL MANIFOLD TO TANK	STEERING	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
SSTR-HYD-001	STBD PEDESTAL MANIFOLD TO RAM	STEERING	STEERING GEAR ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
SSTR-HYD-002	STBD PEDESTAL MANIFOLD TO TANK	STEERING	STEERING GEAR ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-004	CENTER BOOM HOSE REEL	UCHS	02 LVL FR76(S)	1/2	SYNTHETIC RUBBER	144	REPLACE	
UCHS-HYD-001	HYDRAULIC PUMP SUCTION	UCHS WINCH	UCHS MACHINERY ROOM	1 1/2	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-005	UCHS CABLE RAM TENSIONER PRIMARY AIR SUPPLY	UCHS WINCH	02 LVL FR80(P)	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-003	UCHS CABLE RAM TENSIONER SECONDARY AIR SUPPLY	UCHS WINCH	02 LVL FR80(P)	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-001	UCHS WINCH INLET	UCHS WINCH	UCHS MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	
UCHS-A-002	UCHS WINCH OUTLET	UCHS WINCH	UCHS MACHINERY ROOM	3/4	SYNTHETIC RUBBER	144	REPLACE	
UCHS-O/W-001	UCHS WINCH SUMP PUMP INLET	UCHS WINCH	UCHS MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	

PROPOSED MCM CLASS CRITICAL HOSE LIST

HOSE_NUM	EQUIP_DESC	SYSTEM	LOCATION	SIZE	TYPE	PERIODICITY	ACTION	REMARKS
UCHS-O/W-002	UCHS WINCH SUMP PUMP OUTLET	UCHS WINCH	UCHS MACHINERY ROOM	1	SYNTHETIC RUBBER	144	REPLACE	

(ATTACHMENT B)