DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION

NAVAL SHIP SYSTEMS
ENGINEERING STATION
5001 S. BROAD STREET
PHILADELPHIA, PA 19112-1403

IN REPLY REFER TO
9503
Ser 9234/037
3 May 2005

From: Commander, Carderock Division, Naval Surface Warfare Center, Philadelphia, PA 19112-1403
To: Commander, Naval Sea Systems Command (Code 05L3)

Subj: FLEXIBLE RUBBER HOSE CHANGE TO PERIODIC MAINTENANCE

Ref: (a) NAVSEA Ltr Ser 03L34/443 of 19 Dec 1997
(b) NAVSEA S6430-AE-TED-010 Technical Directive for Piping Devices and Flex Hose Assemblies
(c) SURFLANT Ltr Ser N434A/0307 OF 6 Apr 2004
(d) ERM2

Encl: (1) Newly proposed periodicity Flex Hose Spreadsheet for a Typical LHA-1 Class Ship

1. Reference (a), ACN 3A (NSDSA Control Number A48048) was issued to modify criteria governing the criticality and extension of the replacement requirements. In accordance with reference (b) Critical assemblies have been extended to twelve years and no periodic replacement is required for Non-Critical hose assemblies unless assemblies fail in service or visual inspection.

2. Per reference (a), hose lists should be forwarded to the Carderock Division, Naval Surface Warfare Center (NSWCCD-SSES) Code 9234 for review and development of a list of critical flex hose assemblies. Upon completion, the list will be forwarded to NAVSEA Code 05 for approval.

3. As requested by reference (c) and tasked by reference (d) NSWCCD-SSES Code 9234 was asked to review the existing hose list from USS NASSAU (LHA-4) and establish a revised Critical/Non-Critical Hose List in an effort to save funding, while maintaining safety standards. Enclosure (1) provides a list of existing hose assemblies and recommended periodicity for use onboard all LHA-1 Class ships.

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4. 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 (Code 05Z9)
COMNAVSURFLANT Norfolk, VA (N434A11, N431A3)

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 SS/EDG								
#1 SS/EDG	EA02	4-25-0-E	JET AIR ASSIST - STARBORD	A	100 °F	-12	300	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	JET AIR ASSIST - BOTTOM	A	100 °F	-12	300	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	JET AIR ASSIST - PORT	A	100 °F	-12	300	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	JET AIR ASSIST - TOP	A	100 °F	-12	300	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	FUEL PMP INLET	F/O	70 °F	-16	20	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	J/W INLET TO AFTER COOLER	J/W	180 °F	-8	40	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	J/W INLET TO TURBO COOLER	J/W	180 °F	-16	40	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	TURBO L/O DRIAN LINE	L/O	180 °F	-20	80	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	FUEL RACK INLET	F/O	80 °F	-10	70/01	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	DUPLEX STRAINER FWD #1	F/O	70 °F	-8	70	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	DUPLEX STRAINER FWD #2	F/O	70 °F	-8	70	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	DUBLEX STRAINER AFT #1	F/O	70 °F	-8	70	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	DUPLEX STRAINER AFT #2	F/O	70 °F	-8	70	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	3-WAY VLV J/W INLET	J/W	180 °F	-16	40	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	3-WAY VLV TO EXPANSION TANK	J/W	180 °F	-10	40	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	3-WAY VLV TO J/W OUTLET	J/W	180 °F	-8	40	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	J/W MANIFOLD TO EXPANSION TANK	J/W	180 °F	-8	40	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 SS/EDG	EA02	4-25-0-E	L/O SPLY TO TURBO	L/O	120 °F	-8	100	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	FUEL RETURN TO SENSON	F/O	80 °F	-10	70	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	FUEL RETURN FM SENSOR	F/O	80 °F	-10	70	**CRITICAL**
#1 SS/EDG	EA02	4-25-0-E	GENERATOR AIR COOLER INLET	S/W	70 °F	-40	125	NON-CRITICAL
#1 SS/EDG	EA02	4-25-0-E	GENERATOR AIR COOLER OUTLET	S/W	70 °F	-40	125	NON-CRITICAL
#2 SS/EDG								
#2 SS/EDG	EA02	1-125-2-E	JET AIR ASSIST - STARBORD	A	100 °F	-12	300	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	JET AIR ASSIST - BOTTOM	A	100 °F	-12	300	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	JET AIR ASSIST - PORT	A	100 °F	-12	300	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	JET AIR ASSIST - TOP	A	100 °F	-12	300	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	FUEL PMP INLET	F/O	70 °F	-16	20	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	J/W INLET TO AFTER COOLER	J/W	180 °F	-8	40	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	J/W INLET TO TURBO COOLER	J/W	180 °F	-16	40	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	TURBO L/O DRIAN LINE	L/O	180 °F	-20	80	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	FUEL RACK INLET	F/O	80 °F	-10	70	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	DUPLEX STRAINER FWD #1	F/O	70 °F	-8	70	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	DUPLEX STRAINER FWD #2	F/O	70 °F	-8	70	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	DUBLEX STRAINER AFT #1	F/O	70 °F	-8	70	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#2 SS/EDG	EA02	1-125-2-E	DUPLEX STRAINER AFT #2	F/O	70 °F	-8	70	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	3-WAY VLV J/W INLET	J/W	180 °F	-16	40	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	3-WAY VLV TO EXPANSION TANK	J/W	180 °F	-10	40	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	J/W MANIFOLD TO EXPANSION TANK	J/W	180 °F	-10	40	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	L/O SPLY TO TURBO	L/O	180 °F	-8	100	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	FUEL RETURN	F/O	80 °F	-10	70	**CRITICAL**
#2 SS/EDG	EA02	1-125-2-E	GENERATOR AIR COOLER INLET	S/W	70 °F	-40	125	NON-CRITICAL
#2 SS/EDG	EA02	1-125-2-E	GENERATOR AIR COOLER OUTLET	S/W	70 °F	-40	125	NON-CRITICAL
LCPL 8341								
LCPL 8341	EA02	BOAT CRADLE	STBD FUEL TK SUCTION	F/O	70 °F	-10	15	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	PORT FUEL TK SUCTION	F/O	70 °F	-10	15	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	KNIFE EDGE STRAINER OUTLET	F/O	70 °F	-10	15	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	KNIFE EDGE STRAINER INLET	F/O	70 °F	-6	15	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	PRIMARY FILTER INLET	F/O	70 °F	-8	15	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	F/O PUMP INLET	F/O	70 °F	-6	15	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	SECONDARY FILTER INLET	F/O	70 °F	-6	55	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	STBD FUEL RACK INLET	F/O	70 °F	-6	55	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	PORT FUEL RACK INLET	F/O	70 °F	-6	55	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
LCPL 8341	EA02	BOAT CRADLE	FUEL RACK CROSSOVER	F/O	80 °F	-6	55	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	F/O COOLER INLET	F/O	80 °F	-6	55	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	F/O COOLER OUTLET	F/O	70 °F	-6	55	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	PORT TURBO L/O SPLY	L/O	180 °F	-6	80	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	STBD TURBO L/O SPLY	L/O	180 °F	-6	80	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	OIL FILTER INLET	L/O	180 °F	-20	80	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	OIL FILTER OUTLET	L/O	180 °F	-20	80	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	CONSOLE ENGINE OIL GAGE	L/O	180 °F	-8	80	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	CONSOLE ENGINE TRANSMISSION GAGE	L/O	180 °F	-8	80	**CRITICAL**
LCPL 8341	EA02	BOAT CRADLE	BILGE STRIPPING PUMP INLET	O/W	70 °F	-12	0	NON-CRITICAL
LCPL 8345								
LCLP 8345	EA02	BOAT CRADLE	STBD FUEL TK SUCTION	F/O	70 °F	-10	15	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	PORT FUEL TK SUCTION	F/O	70 °F	-10	15	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	KNIFE EDGE STRAINER INLET	F/O	70 °F	-10	15	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	COALESSOR INLET	F/O	70 °F	-10	15	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	PRIMARY FILTER INLET	F/O	70 °F	-10	15	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	FUEL PUMP INLET	F/O	70 °F	-8	15	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	SECONDARY FILTER INLET	F/O	70 °F	-6	55	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
LCLP 8345	EA02	BOAT CRADLE	STBD FUEL RACK INLET	F/O	70 °F	-6	55	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	PORT FUEL RACK INLET	F/O	70 °F	-6	55	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	FUEL RACK CROSSOVER	F/O	70 °F	-6	55	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	FUEL COOLER INLET	F/O	70 °F	-6	55	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	FUEL TK RETURN	F/O	70 °F	-6	55	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	COLD START ASSIST	A	70 °F	-4	30	NON-CRITICAL
LCLP 8345	EA02	BOAT CRADLE	STBD TURBO L/O SPLY	L/O	180 °F	-6	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	L/O FILTER INLET	L/O	180 °F	-20	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	L/O FILTER OUTLET	L/O	180 °F	-20	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	TRANSMISSION COOLER	L/O	180 °F	-12	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	ENGINE OIL GAGE LINE	L/O	180 °F	-6	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	CONSOLE ENGINE OIL GAGE	L/O	180 °F	-8	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	CONSOLE TRANSMISSION GAGE	L/O	180 °F	-8	80	**CRITICAL**
LCLP 8345	EA02	BOAT CRADLE	BILGE STRIPPING PUMP INLET	O/W	70 °F	-12	0	NON-CRITICAL
#1 LPAC								
#1 LPAC	EP01	6-65-0-E	BLOWDOWN FM COMP	A	122 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	BLOWDOWN FM COMP TO SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	COMP DISCH TO SEP	A	122 °F	-32	125	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 LPAC	EP01	6-65-0-E	SEP DRN	P/W	105 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	HEAT EXCH (PW) TO DRN MANIFOLD	P/W	105 °F	-6	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	HEAT EXCH (SW) TO DRN MANIFOLD	S/W	105 °F	-8	150	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	FILTER &SEP TO DRN MANIFOLD	P/W	105 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	AIR DISCH	P/W	122 °F	-32	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W DRN	P/W	105 °F	-8	0	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	WTR FILTER INLET	P/W	105 °F	-24	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W VLV MANIFOLD - COOLER/FILTER FILL	P/W	105 °F	-8	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W VLV MANIFOLD - FILTER DRN	P/W	105 °F	-8	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W VLV MANIFOLD - SEP DRN	P/W	105 °F	-8	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W VLV MANIFOLD - SEP FILL	P/W	105 °F	-8	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W VLV MANIFOLD - INLET FM DRN MANIFOLD/COMP	P/W	105 °F	-8	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W VLV MANIFOLD - OUTLET TO DRN MANIFOOD	P/W	105 °F	-8	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	COMP AIR (1st HOSE) - P/W DRN	P/W	105 °F	-6	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	COMP AIR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	COMP AIR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	COMP WTR (1st HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	COMP WTR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 LPAC	EP01	6-65-0-E	COMP WTR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	P/W INLET TO DRN MANIFOLD	P/W	105 °F	-6	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	SEP TO BLOWDOWN SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	SEP TO HEAT EXCH	P/W	105 °F	-24	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	SOLENOID VLV TO COMP	P/W	105 °F	-24	105	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	HEAT EXCH - S/W INLET	S/W	95 °F	-32	150	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	HEAT EXCH - S/W OUTLET	S/W	105 °F	-32	150	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	UNLOADER RELIEF	A	122 °F	-8	125	NON-CRITICAL
#1 LPAC	EP01	6-65-0-E	SOLENIOD INLET FM WTR FILTER	P/W	105 °F	-24	105	NON-CRITICAL
#2 LPAC								
#2 LPAC	EA02	6-73-0-E	BLOWDOWN FM COMP	A	122 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	BLOWDOWN FM COMP TO SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP DISCH TO SEP	A	122 °F	-32	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	SEP DRN	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	HEAT EXCH (PW) TO DRN MANIFOLD	P/W	105 °F	-6	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	HEAT EXCH (SW) TO DRN MANIFOLD	S/W	105 °F	-8	150	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	FILTER &SEP TO DRN MANIFOLD	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	AIR DISCH	P/W	122 °F	-32	125	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#2 LPAC	EA02	6-73-0-E	P/W DRN	P/W	105 °F	-8	0	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	WTR FILTER INLET	P/W	105 °F	-24	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W VLV MANIFOLD - COOLER/FILTER FILL	P/W	105 °F	-8	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W VLV MANIFOLD - FILTER DRN	P/W	105 °F	-8	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W VLV MANIFOLD - SEP DRN	P/W	105 °F	-8	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W VLV MANIFOLD - SEP FILL	P/W	105 °F	-8	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W VLV MANIFOLD - INLET FM DRN MANIFOLD/COMP	P/W	105 °F	-8	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W VLV MANIFOLD - OUTLET TO DRN MANIFOOD	P/W	105 °F	-8	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP AIR (1st HOSE) - P/W DRN	P/W	105 °F	-6	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP AIR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP AIR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP WTR (1st HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP WTR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	COMP WTR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	P/W INLET TO DRN MANIFOLD	P/W	105 °F	-6	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	SEP TO BLOWDOWN SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	SEP TO HEAT EXCH	P/W	105 °F	-24	105	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	SOLENOID VLV TO COMP	P/W	105 °F	-24	105	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#2 LPAC	EA02	6-73-0-E	HEAT EXCH - S/W INLET	S/W	95 °F	-32	150	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	HEAT EXCH - S/W OUTLET	S/W	105 °F	-32	150	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	UNLOADER RELIEF	A	122 °F	-8	125	NON-CRITICAL
#2 LPAC	EA02	6-73-0-E	SOLENIOD INLET FM WTR FILTER	P/W	105 °F	-24	105	NON-CRITICAL
#3 LPAC								
#3 LPAC	EP02	6-81-0-E	BLOWDOWN FM COMP	A	122 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	BLOWDOWN FM COMP TO SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP DISCH TO SEP	A	122 °F	-32	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	SEP DRN	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	HEAT EXCH (SW) TO DRN MANIFOLD	S/W	105 °F	-8	150	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	FILTER &SEP TO DRN MANIFOLD	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	AIR DISCH	P/W	122 °F	-32	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W DRN	P/W	105 °F	-8	0	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	WTR FILTER INLET	P/W	105 °F	-24	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W VLV MANIFOLD - COOLER/FILTER FILL	P/W	105 °F	-8	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W VLV MANIFOLD - FILTER DRN	P/W	105 °F	-8	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W VLV MANIFOLD - SEP DRN	P/W	105 °F	-8	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W VLV MANIFOLD - SEP FILL	P/W	105 °F	-8	105	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#3 LPAC	EP02	6-81-0-E	P/W VLV MANIFOLD - INLET FM DRN MANIFOLD/COMP	P/W	105 °F	-8	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W VLV MANIFOLD - OUTLET TO DRN MANIFOOD	P/W	105 °F	-8	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP AIR (1st HOSE) - P/W DRN	P/W	105 °F	-6	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP AIR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP AIR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP WTR (1st HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP WTR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	COMP WTR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	P/W INLET TO DRN MANIFOLD	P/W	105 °F	-6	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	SEP TO BLOWDOWN SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	SEP TO HEAT EXCH	P/W	105 °F	-24	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	SOLENOID VLV TO COMP	P/W	105 °F	-24	105	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	HEAT EXCH - S/W INLET	S/W	95 °F	-32	150	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	HEAT EXCH - S/W OUTLET	S/W	105 °F	-32	150	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	UNLOADER RELIEF	A	122 °F	-8	125	NON-CRITICAL
#3 LPAC	EP02	6-81-0-E	SOLENIOD INLET FM WTR FILTER	P/W	105 °F	-24	105	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
			#4 LPAC					
#4 LPAC	EA02	3-121-2-E	BLOWDOWN FM COMP	A	122 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	BLOWDOWN FM COMP TO SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	COMP DISCH TO SEP	A	122 °F	-32	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	SEP DRN	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	HEAT EXCH (PW) TO DRN MANIFOLD	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	HEAT EXCH (SW) TO DRN MANIFOLD	S/W	105 °F	-6	150	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	FILTER &SEP TO DRN MANIFOLD	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	AIR DISCH	P/W	122 °F	-32	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W DRN	P/W	105 °F	-8	0	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	WTR FILTER INLET	P/W	105 °F	-24	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W VLV MANIFOLD - COOLER/FILTER FILL	P/W	105 °F	-8	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W VLV MANIFOLD - FILTER DRN	P/W	105 °F	-8	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W VLV MANIFOLD - SEP DRN	P/W	105 °F	-8	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W VLV MANIFOLD - SEP FILL	P/W	105 °F	-8	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W VLV MANIFOLD - INLET FM DRN MANIFOLD/COMP	P/W	105 °F	-8	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W VLV MANIFOLD - OUTLET TO DRN MANIFOOD	P/W	105 °F	-8	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	COMP AIR (1st HOSE) - P/W DRN	P/W	105 °F	-6	125	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#4 LPAC	EA02	3-121-2-E	COMP AIR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	COMP AIR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	COMP WTR (1st HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	COMP WTR (2nd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	COMP WTR (3rd HOSE) - P/W DRN	P/W	105 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	P/W INLET TO DRN MANIFOLD	P/W	105 °F	-6	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	SEP TO BLOWDOWN SOLENOID	A	122 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	SEP TO HEAT EXCH	P/W	105 °F	-24	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	SOLENOID VLV TO COMP	P/W	105 °F	-24	105	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	HEAT EXCH - S/W INLET	S/W	95 °F	-32	150	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	HEAT EXCH - S/W OUTLET	S/W	105 °F	-32	150	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	UNLOADER RELIEF	A	122 °F	-8	125	NON-CRITICAL
#4 LPAC	EA02	3-121-2-E	SOLENIOD INLET FM WTR FILTER	P/W	105 °F	-24	105	NON-CRITICAL
BOW THRUSTER								
BOW THRUSTER	EA02	4-25-0-E	AFT JRNL BEARING L/O SPLY	L/O	120 °F	-6	25	**CRITICAL**
BOW THRUSTER	EA02	4-25-0-E	LP AIR SPLY	A	70 °F	-8	125	NON-CRITICAL
BOW THRUSTER	EA02	4-25-0-E	L/O COOLER OUTLET	L/O	110 °F	-10	25	**CRITICAL**
BOW THRUSTER	EA02	4-25-0-E	L/O COOLER INLET	L/O	140 °F	-12	25	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
BOW THRUSTER	EA02	4-25-0-E	L/O SUMP RETURN	L/O	110 °F	-5	15	**CRITICAL**
BOW THRUSTER	EA02	4-25-0-E	LP AIR SPLY TO ROTARY SEAL	A	70 °F	-6	125	NON-CRITICAL
BOW THRUSTER	EA02	4-25-0-E	FWD JRNL BEARING L/O SPLY	L/O	110 °F	-6	25	**CRITICAL**
#1 AIR ATOMIZER HOSE								
#2 BOILER	EP01	6-65-0-E	AIR ATOMIZER	A	75 °F	-12	125	NON-CRITICAL
#2 AIR ATOMIZER HOSE								
#1 BOILER	EP02	6-81-0-E	AIR ATOMIZER	A	75 °F	-12	125	NON-CRITICAL
#1 EMERGENCY FEED PUMP								
#1 EFP	EP01	6-65-0-E	AIR SPLY	A	75 °F	-12	125	NON-CRITICAL
SHAFT SEAL								
PORT STERN TUBE	EP01	7-89-4-E	INFLATABLE SHAFT SEAL	A	70 °F	-8	120	NON-CRITICAL
STBD STERN TUBE	EP02	7-89-3-E	INFLATABLE SHAFT SEAL	A	70 °F	-8	120	NON-CRITICAL
#1 BROMINATOR								
#1 BROMINATOR	EP01	6-65-0-E	PMP SUCTION	P/W	70 °F	-20	10	NON-CRITICAL
#1 BROMINATOR	EP01	6-65-0-E	PMP DISCH	P/W	70 °F	-20	80	NON-CRITICAL
#1 BROMINATOR	EP01	6-65-0-E	FILL TK 7-71-4	P/W	70 °F	-20	80	NON-CRITICAL
#1 BROMINATOR	EP01	6-65-0-E	SUCT TK 7-69-2	P/W	70 °F	-20	10	NON-CRITICAL
#1 BROMINATOR	EP01	6-65-0-E	FILL TK 7-69-2	P/W	70 °F	-20	80	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 BROMINATOR	EP01	6-65-0-E	SUCT TK 7-67-2	P/W	70 °F	-20	10	NON-CRITICAL
#1 BROMINATOR	EP01	6-65-0-E	FILL TK 7-67-2	P/W	70 °F	-20	80	NON-CRITICAL
#1 BROMINATOR	EP01	6-65-0-E	SUCT TK 7-71-4	P/W	70 °F	-20	10	NON-CRITICAL
#2 BROMINATOR								
#2 BROMINATOR	EP02	6-81-0-E	PMP SUCTION	P/W	70 °F	-20	10	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	PMP DISCH	P/W	70 °F	-20	80	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	FILL TK 7-84-1	P/W	70 °F	-20	80	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	SUCT TK 7-84-1	P/W	70 °F	-20	10	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	FILL TK 7-85-3	P/W	70 °F	-20	80	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	SUCT TK 7-85-3	P/W	70 °F	-20	10	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	FILL TK 7-87-1	P/W	70 °F	-20	80	NON-CRITICAL
#2 BROMINATOR	EP02	6-81-0-E	SUCT TK 7-87-1	P/W	70 °F	-20	10	NON-CRITICAL
JP5 PURIFIER #1								
JP5 PURIFIER #1	VE-02	6-41-1-E	PURIFIER OUTLET	F/O	70 °F	-48	35	**CRITICAL**
JP5 PURIFIER #1	VE-02	6-41-1-E	PURIFIER INLET	F/O	70 °F	-48	9	**CRITICAL**
JP5 PURIFIER #1	VE-02	6-41-1-E	PURIFIER DRIAN	O/W	70 °F	-64	3	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
			JP5 PURIFIER #2					
JP5 PURIFIER #2	VE-02	6-41-1-E	PURIFIER OUTLET	F/O	70 °F	-48	35	**CRITICAL**
JP5 PURIFIER #2	VE-02	6-41-1-E	PURIFIER INLET	F/O	70 °F	-48	9	**CRITICAL**
JP5 PURIFIER #2	VE-02	6-41-1-E	PURIFIER DRIAN	O/W	70 °F	-64	3	NON-CRITICAL
			JP5 PURIFIER #3					
JP5 PURIFIER #3	VE-02	5.5-101-0-E	PURIFIER OUTLET	F/O	70 °F	-48	35	**CRITICAL**
JP5 PURIFIER #3	VE-02	5.5-101-0-E	PURIFIER INLET	F/O	70 °F	-48	9	**CRITICAL**
JP5 PURIFIER #3	VE-02	5.5-101-0-E	PURIFIER DRIAN	O/W	70 °F	-64	3	NON-CRITICAL
			JP5 PURIFIER #4					
JP5 PURIFIER #4	VE-02	5.5-101-0-E	PURIFIER OUTLET	F/O	70 °F	-48	35	**CRITICAL**
JP5 PURIFIER #4	VE-02	5.5-101-0-E	PURIFIER INLET	F/O	70 °F	-48	9	**CRITICAL**
JP5 PURIFIER #4	VE-02	5.5-101-0-E	PURIFIER DRIAN	O/W	70 °F	-64	3	NON-CRITICAL
JP5 PURIFIER #3	VE-02	5.5-101-0-E	OUTLET GAGE LINE	F/O	70 °F	-4	35	**CRITICAL**
JP5 PURIFIER #3	VE-02	5.5-101-0-E	INLET GAGE LINE	F/O	70 °F	-4	9	**CRITICAL**
			#1 RO UNIT					
#1 RO UNIT	EA03	01-1-1-E	MEMBRANE FILTER F/W FILL OUTLET	P/W	70 °F	-24	85	NON-CRITICAL
#1 RO UNIT	EA03	01-1-1-E	MEMBRANE FILTER BRINE OVBD DISCH	S/W	70 °F	-32	80	NON-CRITICAL
#1 RO UNIT	EA03	01-1-1-E	MICRON FILTER S/W SPLY	S/W	70 °F	-32	125	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 RO UNIT	EA03	01-1-1-E	MICRON FILTER F/W INLET	P/W	70 °F	-32	85	NON-CRITICAL
#2 RO UNIT								
#2 RO UNIT	EA03	01-1-1-E	MEMBRANE FILTER F/W FILL OUTLET	P/W	70 °F	-24	85	NON-CRITICAL
#2 RO UNIT	EA03	01-1-1-E	MEMBRANE FILTER BRINE OVBD DISCH	S/W	70 °F	-32	80	NON-CRITICAL
#2 RO UNIT	EA03	01-1-1-E	MICRON FILTER S/W SPLY	S/W	70 °F	-32	125	NON-CRITICAL
#2 RO UNIT	EA03	01-1-1-E	MICRON FILTER F/W INLET	P/W	70 °F	-32	85	NON-CRITICAL
#3 RO UNIT								
#3 RO UNIT	EA03	01-1-2-E	MEMBRANE FILTER F/W FILL OUTLET	P/W	70 °F	-24	85	NON-CRITICAL
#3 RO UNIT	EA03	01-1-2-E	MEMBRANE FILTER BRINE OVBD DISCH	S/W	70 °F	-32	80	NON-CRITICAL
#3 RO UNIT	EA03	01-1-2-E	MICRON FILTER S/W SPLY	S/W	70 °F	-32	125	NON-CRITICAL
#3 RO UNIT	EA03	01-1-2-E	MICRON FILTER F/W INLET	P/W	70 °F	-32	85	NON-CRITICAL
#4 RO UNIT								
#4 RO UNIT	EA03	01-1-2-E	MEMBRANE FILTER F/W FILL OUTLET	P/W	70 °F	-24	85	NON-CRITICAL
#4 RO UNIT	EA03	01-1-2-E	MEMBRANE FILTER BRINE OVBD DISCH	S/W	70 °F	-32	80	NON-CRITICAL
#4 RO UNIT	EA03	01-1-2-E	MICRON FILTER S/W SPLY	S/W	70 °F	-32	125	NON-CRITICAL
#4 RO UNIT	EA03	01-1-2-E	MICRON FILTER F/W INLET	P/W	70 °F	-32	85	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
			#1 MONORAIL					
#1 MONORAIL	EAS1	WELL DECK	CAB ROTATE AFT SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE AFT	H/F	110 °F	-6	250	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	CAB ROTATE FWD SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE FWD	H/F	110 °F	-6	250	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	FWD HOIST BRAKE SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	BRAKE SOLENOID DRN TO TK	H/F	110 °F	-6	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	SOLENIOD TO FWD BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	FWD HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	FWD HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	FWD HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	AFT HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	SOLENIOD TO AFT BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	AFT BRAKE SPLY	H/F	110 °F	-6	100	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	AFT HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	AFT HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD SPLY	H/F	110 °F	-16	2500	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE DRN	H/F	110 °F	-8	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD RTN	H/F	110 °F	-12	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT RTN	H/F	110 °F	-12	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	HYD PMP #2 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	HYD PMP #1 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	FILTER SPLY	H/F	110 °F	-16	100	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	FILTER TO MBA #3	H/F	110 °F	-6	100	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #1	H/F	110 °F	-12	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #2	H/F	110 °F	-12	40	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	PMP #1 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #1 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	PMP #2 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #2 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#1 MONORAIL	EAS1	WELL DECK	MBA #2 TO SV #8	H/F	110 °F	-8	2500	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#1 MONORAIL	EAS1	WELL DECK	MBA #1 TO MBA #2 PSI EQUALIZER	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	MBA X-CONNECT	H/F	110 °F	-16	2500	**CRITICAL**
#1 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE SPEED LIMITER	H/F	110 °F	-8	2500	**CRITICAL**
			#2 MONORAIL					
#2 MONORAIL	EAS1	WELL DECK	CAB ROTATE AFT SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE AFT	H/F	110 °F	-6	250	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	CAB ROTATE FWD SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE FWD	H/F	110 °F	-6	250	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	FWD HOIST BRAKE SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	BRAKE SOLENOID DRN TO TK	H/F	110 °F	-6	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	SOLENIOD TO FWD BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	FWD HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	FWD HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	FWD HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	AFT HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	SOLENIOD TO AFT BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	AFT BRAKE SPLY	H/F	110 °F	-6	100	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	AFT HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#2 MONORAIL	EAS1	WELL DECK	AFT HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE DRN	H/F	110 °F	-8	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD RTN	H/F	110 °F	-12	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT RTN	H/F	110 °F	-12	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	HYD PMP #2 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	HYD PMP #1 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	FILTER SPLY	H/F	110 °F	-16	100	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	FILTER TO MBA #3	H/F	110 °F	-6	100	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #1	H/F	110 °F	-12	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #2	H/F	110 °F	-12	40	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	PMP #1 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #1 'T'	H/F	110 °F	-4	75	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#2 MONORAIL	EAS1	WELL DECK	PMP #2 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #2 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#2 MONORAIL	EAS1	WELL DECK	MBA #2 TO SV #8	H/F	110 °F	-8	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	MBA #1 TO MBA #2 PSI EQUALIZER	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	MBA X-CONNECT	H/F	110 °F	-16	2500	**CRITICAL**
#2 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE SPEED LIMITER	H/F	110 °F	-8	2500	**CRITICAL**
#3 MONORAIL								
#3 MONORAIL	EAS1	WELL DECK	CAB ROTATE AFT SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE AFT	H/F	110 °F	-6	250	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	CAB ROTATE FWD SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE FWD	H/F	110 °F	-6	250	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	FWD HOIST BRAKE SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	BRAKE SOLENOID DRN TO TK	H/F	110 °F	-6	40	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	SOLENIOD TO FWD BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	FWD HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	FWD HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	FWD HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	AFT HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#3 MONORAIL	EAS1	WELL DECK	SOLENIOD TO AFT BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	AFT BRAKE SPLY	H/F	110 °F	-6	100	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	AFT HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	AFT HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE DRN	H/F	110 °F	-8	40	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD RTN	H/F	110 °F	-12	40	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT RTN	H/F	110 °F	-12	40	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	HYD PMP #2 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	HYD PMP #1 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	FILTER SPLY	H/F	110 °F	-16	100	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	FILTER TO MBA #3	H/F	110 °F	-6	100	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #1	H/F	110 °F	-12	40	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #2	H/F	110 °F	-12	40	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	PMP #1 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #1 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	PMP #2 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #2 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#3 MONORAIL	EAS1	WELL DECK	MBA #2 TO SV #8	H/F	110 °F	-8	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	MBA #1 TO MBA #2 PSI EQUALIZER	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	MBA X-CONNECT	H/F	110 °F	-16	2500	**CRITICAL**
#3 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE SPEED LIMITER	H/F	110 °F	-8	2500	**CRITICAL**
#4 MONORAIL								
#4 MONORAIL	EAS1	WELL DECK	CAB ROTATE AFT SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE AFT	H/F	110 °F	-6	250	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	CAB ROTATE FWD SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	CAB CONN ROTATE FWD	H/F	110 °F	-6	250	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	FWD HOIST BRAKE SPLY	H/F	110 °F	-6	250	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	BRAKE SOLENOID DRN TO TK	H/F	110 °F	-6	40	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#4 MONORAIL	EAS1	WELL DECK	SOLENIOD TO FWD BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	FWD HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	FWD HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	FWD HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	AFT HOIST CASE DRN CIRCUIT	H/F	110 °F	-12	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	SOLENIOD TO AFT BRAKE	H/F	110 °F	-6	100	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	AFT BRAKE SPLY	H/F	110 °F	-6	100	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	AFT HOIST LIFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	AFT HOIST LOWER SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD SPLY	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE DRN	H/F	110 °F	-8	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE FWD RTN	H/F	110 °F	-12	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE AFT RTN	H/F	110 °F	-12	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	HYD PMP #2 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	TOP HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#4 MONORAIL	EAS1	WELL DECK	HYD PMP #1 SUCTION	H/F	110 °F	-12	2	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #2 TO MBA #1	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	BOTTOM HYD PMP #1 TO MBA #2	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	FILTER SPLY	H/F	110 °F	-16	100	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	FILTER TO MBA #3	H/F	110 °F	-6	100	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #1	H/F	110 °F	-12	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE RTN TO PMP #2	H/F	110 °F	-12	40	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	PMP #1 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #1 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	PMP #2 TO 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	PSI SWITCH FM PMP #2 'T'	H/F	110 °F	-4	75	NON-CRITICAL
#4 MONORAIL	EAS1	WELL DECK	MBA #2 TO SV #8	H/F	110 °F	-8	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	MBA #1 TO MBA #2 PSI EQUALIZER	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	MBA X-CONNECT	H/F	110 °F	-16	2500	**CRITICAL**
#4 MONORAIL	EAS1	WELL DECK	TRANSVERSE DRIVE SPEED LIMITER	H/F	110 °F	-8	2500	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
PORT STORES DOORS								
PORT STORES DR	EAS1	1-48-8	DOOR OPEN	H/F	80 °F	-6	450	**CRITICAL**
PORT STORES DR	EAS1	1-48-8	DOOR CLOSE	H/F	80 °F	-6	450	**CRITICAL**
STARBOARD STORES DOORS								
STBD STORES DR	EAS1	1-48-5	DOOR OPEN	H/F	80 °F	-6	450	**CRITICAL**
STBD STORES DR	EAS1	1-48-5	DOOR CLOSE	H/F	80 °F	-6	450	**CRITICAL**
STBD STORES DR	EAS1	1-48-5	DOOR LOCK	H/F	80 °F	-6	450	**CRITICAL**
PORT SIDEPORT DOORS								
PORT SPD (OUTBRD)	EAS1	3-65-2-A	DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	BOTTOM/AFT DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	TOP/FWD DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	BOTTOM/AFT UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	TOP/FWD UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	LATCH OPEN SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPD (OUTBRD)	EAS1	3-65-2-A	UNLATCH CLOSED SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
PORT SIDEPORT CRANE								
PORT SPC	EAS1	3-65-2-A	EXTENSION SPLY/RTN	H/F	80 °F	-8	950	**CRITICAL**
PORT SPC	EAS1	3-65-2-A	RETRACT SPLY/RTN	H/F	80 °F	-8	950	**CRITICAL**
PORT SPC	EAS1	3-65-2-A	PMP EXTENSION	H/F	80 °F	-12	950	**CRITICAL**
PORT SPC	EAS1	3-65-2-A	PMP RETRACT	H/F	80 °F	-12	950	**CRITICAL**
PORT SIDEPORT INNER SHELL								
PORT SPS	EAS1	3-65-2-A	CENTER DOGGING	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	CENTER UNDOGGING	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	FWD DOOR DOGGING	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	FWD DOOR UNDOGGIING	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	FWD DOOR DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	FWD DOOR UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	FWD DOOR OPEN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	FWD DOOR CLOSE	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	AFT DOOR OPEN	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	AFT DOOR CLOSE	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	AFT DOOR DOGGING	H/F	80 °F	-10	950	**CRITICAL**
PORT SPS	EAS1	3-65-2-A	AFT DOOR UNDOGGING	H/F	80 °F	-10	950	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
STBD SIDEPORT DOORS								
STBD SPD (OUTBRD)	EAS1	3-65-1-A	DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	BOTTOM/AFT DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	TOP/FWD DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	BOTTOM/AFT UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	TOP/FWD UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	LATCH OPEN SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPD (OUTBRD)	EAS1	3-65-1-A	UNLATCH CLOSED SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SIDEPORT CRANE								
STBD SPC	EAS1	3-65-1-A	EXTENSION SPLY/RTN	H/F	80 °F	-8	950	**CRITICAL**
STBD SPC	EAS1	3-65-1-A	RETRACT SPLY/RTN	H/F	80 °F	-8	950	**CRITICAL**
STBD SPC	EAS1	3-65-1-A	PMP EXTENSION	H/F	80 °F	-12	950	**CRITICAL**
STBD SPC	EAS1	3-65-1-A	PMP RETRACT	H/F	80 °F	-12	950	**CRITICAL**
STBD SIDEPORT INNER SHELL								
STBD SPS	EAS1	3-65-1-A	CENTER DOGGING	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	CENTER UNDOGGING	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	FWD DOOR DOGGING	H/F	80 °F	-10	950	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
STBD SPS	EAS1	3-65-1-A	FWD DOOR UNDOGGIING	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	FWD DOOR DOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	FWD DOOR UNDOGGING SPLY/RTN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	FWD DOOR OPEN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	FWD DOOR CLOSE	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	AFT DOOR OPEN	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	AFT DOOR CLOSE	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	AFT DOOR DOGGING	H/F	80 °F	-10	950	**CRITICAL**
STBD SPS	EAS1	3-65-1-A	AFT DOOR UNDOGGING	H/F	80 °F	-10	950	**CRITICAL**
PORT ANCHOR WINDLASS								
PORT ANCHOR WINDLASS	EAS2	1-13-0-Q	UPR CYL RELEASE TO LWR CYL RELEASE	H/F	80 °F	-12	500	**CRITICAL**
PORT ANCHOR WINDLASS	EAS2	1-13-0-Q	LWR CYL RELEASE TO SYS	H/F	80 °F	-12	500	**CRITICAL**
PORT ANCHOR WINDLASS	EAS2	1-13-0-Q	UPPER CYL ENGAGE TO LWR CYL	H/F	80 °F	-12	500	**CRITICAL**
PORT ANCHOR WINDLASS	EAS2	1-13-0-Q	LWR EMGAGE TO SYS	H/F	80 °F	-12	500	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
STARBOARD ANCHOR WINDLASS								
STBD ANCHOR WINDLASS	EAS2	1-13-0-Q	UPR CYL RELEASE TO LWR CYL RELEASE	H/F	80 °F	-12	500	**CRITICAL**
STBD ANCHOR WINDLASS	EAS2	1-13-0-Q	LWR CYL RELEASE TO SYS	H/F	80 °F	-12	500	**CRITICAL**
STBD ANCHOR WINDLASS	EAS2	1-13-0-Q	UPPER CYL ENGAGE TO LWR CYL	H/F	80 °F	-12	500	**CRITICAL**
STBD ANCHOR WINDLASS	EAS2	1-13-0-Q	LWR EMGAGE TO SYS	H/F	80 °F	-12	500	**CRITICAL**
#1 HYDRAULIC POWER PACK								
#1 HPP	EAS2	1-13-0-Q	CHK VLV TO SYS FILTER	H/F	80 °F	-16	2000	**CRITICAL**
#1 HPP	EAS2	1-13-0-Q	SYS RETURN TO SUMP	H/F	80 °F	-16	2000	**CRITICAL**
#2 HYDROLIC POWER PACK								
#2 HPP	EAS2	1-41-3-L	CHK VLV TO SYS FILTER	H/F	80 °F	-16	2000	**CRITICAL**
#2 HPP	EAS2	1-41-3-L	SYS RETURN TO SUMP	H/F	80 °F	-16	2000	**CRITICAL**
#3 HYDRAULIC POWER PACK								
#3 HPP	EAS2	01-41-2-E	CHK VLV TO SYS FILTER	H/F	80 °F	-16	2000	**CRITICAL**
#3 HPP	EAS2	01-41-2-E	SYS RETURN TO SUMP	H/F	80 °F	-16	2000	**CRITICAL**
#3 HPP	EAS2	01-41-2-E	COOLER OUTLET TO SUMP	H/F	80 °F	-12	2000	**CRITICAL**
#3 HPP	EAS2	01-41-2-E	CASE DRN TO COOLER	H/F	80 °F	-12	2000	**CRITICAL**
#3 HPP	EAS2	01-41-2-E	PUMP DISCH TO CHK VLV	H/F	80 °F	-12	2000	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#4 HYDRAULIC POWER PACK								
#4 HPP	EAS2	1-120-1-L	SYS FILTER DISCH TO SUMP	H/F	80 °F	-16	2000	**CRITICAL**
#4 HPP	EAS2	1-120-1-L	CHK VLV TO SYS FILTER	H/F	80 °F	-16	2000	**CRITICAL**
#4 HPP	EAS2	1-120-1-L	SYS RETURN TO SUMP	H/F	80 °F	-20	2000	**CRITICAL**
#4 HPP	EAS2	1-120-1-L	COOLER OUTLET TO SUMP	H/F	80 °F	-12	2000	**CRITICAL**
#4 HPP	EAS2	1-120-1-L	CASE DRN TO COOLER	H/F	80 °F	-12	2000	**CRITICAL**
#4 HPP	EAS2	1-120-1-L	PUMP DISCH TO CHK VLV	H/F	80 °F	-12	2000	**CRITICAL**
#1 DEBALLAST PUMP								
#1 DBAC	EAS2	6-41-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#1 DBAC	EAS2	6-41-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#2 DEBALLAST PUMP								
#2 DBAC	EAS2	6-41-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#2 DBAC	EAS2	6-41-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#3 DEBALLAST PUMP								
#3 DBAC	EAS2	6-73-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#3 DBAC	EAS2	6-73-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#4 DEBALLAST PUMP								
#4 DBAC	EAS2	6-73-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#4 DBAC	EAS2	6-73-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#5 DEBALLAST PUMP								
#5 DBAC	EAS2	6-73-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#5 DBAC	EAS2	6-73-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#6 DEBALLAST PUMP								
#6 DBAC	EAS2	6-73-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#6 DBAC	EAS2	6-73-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#7 DEBALLAST PUMP								
#7 DBAC	EAS2	6-73-0-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#7 DBAC	EAS2	6-73-0-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#8 DEBALLAST PUMP								
#8 DBAC	EAS2	3-117-1-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#8 DBAC	EAS2	3-117-1-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#9 DEBALLAST PUMP								
#9 DBAC	EAS2	3-117-1-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL
#9 DBAC	EAS2	3-117-1-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#10 DEBALLAST PUMP								
#10 DBAC	EAS2	3-117-1-E	L/O COOLER INLET	S/W	70 °F	-16	60	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#10 DBAC	EAS2	3-117-1-E	L/O COOLER OUTLET	S/W	70 °F	-16	60	NON-CRITICAL
#2 WASHER								
#2 WASHER	EA03	4-73-0-Q	LP AIR INLET	A	70 °F	-16	125	NON-CRITICAL
#2 WASHER	EA03	4-73-0-Q	COLD WTR INLET	P/W	65 °F	-32	70	NON-CRITICAL
#2 WASHER	EA03	4-73-0-Q	HOT WTR INLET	P/W	120 °F	-32	70	NON-CRITICAL
#3 WASHER								
#3 WASHER	EA03	4-73-0-Q	LP AIR INLET	A	70 °F	-16	125	NON-CRITICAL
#3 WASHER	EA03	4-73-0-Q	COLD WTR INLET	P/W	65 °F	-24	70	NON-CRITICAL
#3 WASHER	EA03	4-73-0-Q	HOT WTR INLET	P/W	120 °F	-24	70	NON-CRITICAL
#4 WASHER								
#4 WASHER	EA03	4-73-0-Q	LP AIR INLET	A	70 °F	-16	125	NON-CRITICAL
#4 WASHER	EA03	4-73-0-Q	COLD WTR INLET	P/W	65 °F	-32	70	NON-CRITICAL
#4 WASHER	EA03	4-73-0-Q	HOT WTR INLET	P/W	120 °F	-32	70	NON-CRITICAL
#5 WASHER								
#5 WASHER	EA03	4-73-0-Q	LP AIR INLET	A	70 °F	-16	125	NON-CRITICAL
#5 WASHER	EA03	4-73-0-Q	COLD WTR INLET	P/W	65 °F	-32	70	NON-CRITICAL
#5 WASHER	EA03	4-73-0-Q	HOT WTR INLET	P/W	120 °F	-32	70	NON-CRITICAL
#6 WASHER								

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
#6 WASHER	EA03	4-73-0-Q	LP AIR INLET	A	70 °F	-16	125	NON-CRITICAL
#6 WASHER	EA03	4-73-0-Q	COLD WTR INLET	P/W	65 °F	-24	70	NON-CRITICAL
#6 WASHER	EA03	4-73-0-Q	HOT WTR INLET	P/W	120 °F	-24	70	NON-CRITICAL
#5 AC PLANT								
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	C/W OUTLET FROM CHILLER	C/W	65 °F	-96	65	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	S/W OUTLET FROM CONDENSER	S/W	65 °F	-128	70	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	LP AIR INLET TO EXP TANK	A	70 °F	-10	125	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	PPO RETURN LINE	C/W	65 °F	-16	50	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	PPO SUPPLY LINE	C/W	65 °F	-16	50	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	S/W INLET TO CONDENSER	S/W	65 °F	-128	70	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	C/W INLET TO CHILLER	C/W	65 °F	-96	65	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	C/W INLET TO L/O COOLER	C/W	65 °F	-16	65	NON-CRITICAL
#5 AC PLANT	EA05	5-73-0-E (#5 ACMR)	C/W OUTLET TO L/O COOLER	C/W	65 °F	-16	65	NON-CRITICAL
GUN HOISTRACTOR								
HOISTRACTOR	IM02	03-68-3-L	CONTROLLER SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	03-68-3-L	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	03-68-3-L	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	03-68-3-L	HOIST RAISE SPLY	A	70 °F	-4	90	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
HOISTRACTOR	IM02	03-68-3-L	HOIST LOWER SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	03-68-3-L	X-CONN	A	70 °F	-8	90	NON-CRITICAL
LOWER V MEZZININE HOISTRACTOR								
HOISTRACTOR	IM02	01-49-2-A	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-49-2-A	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-49-2-A	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-49-2-A	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	01-49-2-A	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
STBD HANGER MEZZININE STBD HOISTRACTOR								
HOISTRACTOR	IM02	01-79-1-Q	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
STBD HANGER MEZZININE PORT HOISTRACTOR								
HOISTRACTOR	IM02	01-79-1-Q	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
HOISTRACTOR	IM02	01-79-1-Q	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	01-79-1-Q	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
FWD HANGER HOISTRACTOR								
HOISTRACTOR	WG-01	1-80-0-A	CONTROLLER SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A	HOIST RAISE SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A	HOIST LOWER SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
AFT HANGER HOISTRACTOR (PENDENT CONTROL #1)								
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	CONTROLLER SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	HOIST RAISE SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	HOIST LOWER SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
AFT HANGER HOISTRACTOR (PENDENT CONTROL #2)								
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	CONTROLLER SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	HOIST RAISE SPLY	A	70 °F	-12	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	HOIST LOWER SPLY	A	70 °F	-12	90	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-01	1-80-0-A (FRAME 108)	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR								
HOISTRACTOR	IM02	1-81-0-Q	CONTROLLER SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	HOIST RAISE SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	HOIST LOWER SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	X-CONN	A	70 °F	-8	90	NON-CRITICAL
PORT HANGER MEZZININE HOISTRACTOR								
HOISTRACTOR	IM02	1-81-0-Q	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	IM02	1-81-0-Q	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
TAS MK23								
TAS MK23	CS02	07-75-1-Q	HVPS DRY AIR INLET	A	65 °F	-16	125	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	HVPS COOLING INLET	E/W	65 °F	-8	60	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
TAS MK23	CS02	07-75-1-Q	HVPS COOLING OUTLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	TWT COOLING INLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	COLLECTOR SENSOR COOLING OUTLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	DUPLEXER COOLING INLET	E/W	65 °F	-6	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	DUPLEXER COOLING OUTLET	E/W	65 °F	-6	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	TCU DRY AIR INLET	A	65 °F	-8	125	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	TCU COOLING INLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	TCU COOLING OUTLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	TWT DRY AIR INLET	A	65 °F	-6	125	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	LVPS DRY AIR INLET	A	65 °F	-8	125	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	LVPS COOLING INLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	LVPS COOLING OUTLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	DUMMY LOAD COOLING INLET	E/W	65 °F	-12	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	DUMMY LOAD COOLING OUTLET	E/W	65 °F	-12	50	NON-CRITICAL
TAS MK23	CS02	07-75-1-Q	DUMMY LOAD INLET SPLIT TO DUPLEXER	E/W	65 °F	-6	50	NON-CRITICAL
TAS HEAT EXCHANGER								
TAS HEAT EXCH	CS02	07-76-1-Q	CHILL WTR INLET	C/W	60 °F	-24	100	NON-CRITICAL
TAS HEAT EXCH	CS02	07-76-1-Q	CHILL WTR OUTLET	C/W	65 °F	-24	50	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
TAS HEAT EXCH	CS02	07-76-1-Q	ELEC WTR COOLER INLET	E/W	70 °F	-24	50	NON-CRITICAL
TAS HEAT EXCH	CS02	07-76-1-Q	ELEC WTR COOLER OUTLET	E/W	65 °F	-24	50	NON-CRITICAL
TAS HEAT EXCH	CS02	07-76-1-Q	DUMMY LOAD INLET SENSOR	E/W	65 °F	-12	50	NON-CRITICAL
TAS HEAT EXCH	CS02	07-76-1-Q	DUMMY LOAD OUTLET SENSOR	E/W	65 °F	-12	50	NON-CRITICAL
TAS HEAT EXCH	CS02	07-76-1-Q	TCU INLET SENSOR	E/W	65 °F	-8	50	NON-CRITICAL
TAS CONSOLE								
TAS CONSOLE	CS02	06-65-3-C	CONSOLE COOLING INLET	E/W	65 °F	-8	50	NON-CRITICAL
TAS CONSOLE	CS02	06-65-3-C	CONSOLE SOOLING OUTLET	E/W	65 °F	-8	50	NON-CRITICAL
CIWS MT 21								
CIWS MT 21	CS-01	05-60-3	S/W COOLING INLET	S/W	70 °F	=20	125	NON-CRITICAL
CIWS MT 21	CS-01	05-60-3	S/W COOLING OUTLET	S/W	70 °F	-20	125	NON-CRITICAL
CIWS MT 22								
CIWS MT 22	CS-01	02-126-4	S/W COOLING INLET	S/W	70 °F	-20	125	NON-CRITICAL
CIWS MT 22	CS-01	02-126-4	S/W COOLING OUTLET	S/W	70 °F	-20	125	NON-CRITICAL
MAGAZINE HATCH COVER								
OVERHEAD HATCH COVER	EAS1	4-49-0-AA	FWD RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	4-49-0-AA	FWD RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	4-49-0-AA	AFT RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
OVERHEAD HATCH COVER	EAS1	4-49-0-AA	AFT RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
MAGAZINE HATCH COVER								
OVERHEAD HATCH COVER	EAS1	5-49-0-M	FWD RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	5-49-0-M	FWD RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	5-49-0-M	AFT RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	5-49-0-M	AFT RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
MAGAZINE HATCH COVER								
OVERHEAD HATCH COVER	EAS1	6-49-0-M	FWD RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	6-49-0-M	FWD RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	6-49-0-M	AFT RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	6-49-0-M	AFT RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
MAGAZINE HATCH COVER								
OVERHEAD HATCH COVER	EAS1	6-89-0-M	PORT RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	6-89-0-M	PORT RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	6-89-0-M	STBD RAM OPEN	H/F	110 °F	-6	450	NON-CRITICAL
OVERHEAD HATCH COVER	EAS1	6-89-0-M	STBD RAM CLOSE	H/F	110 °F	-6	450	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
40MM MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	6-46-3-M	SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-46-3-M	SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 502, GROUP 1 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 502, GROUP 1 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 207, GROUP 2 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 207, GROUP SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 471, GROUP 3 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 471, GROUP 3 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 503, GROUP 4 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 503, GROUP 4 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 176, GROUP 5 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-49-0-M	MSC 176, GROUP 5 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	MSC 500, SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	MSC 500 , SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	MSC 238 , SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	MSC 238 ,E719 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	MSC 499, GROUP 6 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	MSC 499, GROUP 6 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	GROUP 7 , SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-49-0-M	GROUP 7, SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
FWD MISSILE MAGAZINE								
MAG SPRINKLER CONTROL	WG-01	03-56-1-M	SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-01	03-56-1-M	SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
FWD MISSILE MAG HOISTRACTOR								
HOISTRACTOR	WG-01	03-56-1-M	AIR SPLY	A	70 °F	-8	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	HOIST LIFT SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	HOIST LWR SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	TRACTOR STBD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	TRACTOR PORT SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	FWD/REVERSE TRACTOR CONTROLLER SPLY	A	70 °F	-8	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	TRACTOR FWD SPLY	A	70 °F	-8	90	NON-CRITICAL
HOISTRACTOR	WG-01	03-56-1-M	TRACTOR REVERSE SPLY	A	70 °F	-8	90	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
PYRO PREP MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	03-69-5-M	SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	03-69-5-M	SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 424, GROUP SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 424, GROUP 1 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 380, GROUP 2 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 380, GROUP 2 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 452, SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 452, SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MSC 409, GROUP 4 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-0-M	MDC 409, GROUP 4 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG FORWARD HOISTRACTOR								
HOISTRACTOR	WG-03	5-89-0-M	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
MAG AFT HOISTRACTOR								
HOISTRACTOR	WG-03	5-89-0-M	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-0-M	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL
MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	5-89-1-M	MSC 570, GROUP 5 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-1-M	MSC 570, GROUP 5 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-1-M	MSC 455, GROUP 6 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-89-1-M	MSC 455, GROUP 6 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG HOISTRACTOR								
HOISTRACTOR	WG-03	5-89-1-M	CONTROLLER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-1-M	HOIST RAISE SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-1-M	HOIST LOWER SPLY	A	70 °F	-10	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-1-M	TRACTOR FWD SPLY	A	70 °F	-4	90	NON-CRITICAL
HOISTRACTOR	WG-03	5-89-1-M	TRACTOR REVERSE SPLY	A	70 °F	-4	90	NON-CRITICAL

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
			MAGAZINE					
MAG SPRINKLER CONTROL	WG-03	6-89-0-M	MSC 477 , SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-89-0-M	MSC 477, SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
			MAGAZINE					
MAG SPRINKLER CONTROL	WG-03	6-92-0-T	MSC 486 , SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	6-92-0-T	MSC 486 , SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
			MAGAZINE					
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	MSC 576, GROUP 1 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	MSC 576, GROUP 1 SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	MSC 577, GROUP 2 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	MSC 577, GROUP 2 SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	GROUP 3 , SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	GROUP 3 , SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	MAG 77, WP AREA SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	5-97-1-M	MAG 77, WP AREA SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
ELEVATOR #9								
ELEVATOR #9	EAS1	1-80-0-A	STBD HATCH DOGGING	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	STBD HATCH UNDOGGING	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	FWD CYL HATCH OPEN	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	FWD CYL HETCH CLOSE	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	ATF CYL HATCH OPEN	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	AFT CYL HATCH CLOSE	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	PORT HATCH DOGGING	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #9	EAS1	1-80-0-A	PORT HATCH UNDOGGING	H/F	110 °F	-16	1450	**CRITICAL**
ELEVATOR #10								
ELEVATOR #10	EAS1	1-80-0-A	FWD CYL HATCH OPEN	H/F	110 °F	-12	1450	**CRITICAL**
ELEVATOR #10	EAS1	1-80-0-A	FWD CYL HETCH CLOSE	H/F	110 °F	-12	1450	**CRITICAL**
ELEVATOR #10	EAS1	1-80-0-A	ATF CYL HATCH OPEN	H/F	110 °F	-12	1450	**CRITICAL**
ELEVATOR #10	EAS1	1-80-0-A	AFT CYL HATCH CLOSE	H/F	110 °F	-12	1450	**CRITICAL**
FUZE MAGAZINE								
MAG SPRINKLER CONTROL	WG-03	3-109-2-L	SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-03	3-109-2-L	SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**

PROPOSED LHA-1 CLASS CRITICAL/NON-CRITICAL FLEX HOSE LIST

SYSTEM	W/C	LOCATION	EQUIPMENT DESCRIPTION	FLUID	TEMP °F	SIZE	SYSTEM PSI	DESIGNATION
SMALL ARMS MAGAZINE								
MAG SPRINKLER CONTROL	WG-02	3-89-1-M	SPRINKLER INLET	S/W	70 °F	-8	150	**CRITICAL**
MAG SPRINKLER CONTROL	WG-02	3-89-1-M	SPRINKLER OUTLET	S/W	70 °F	-8	150	**CRITICAL**