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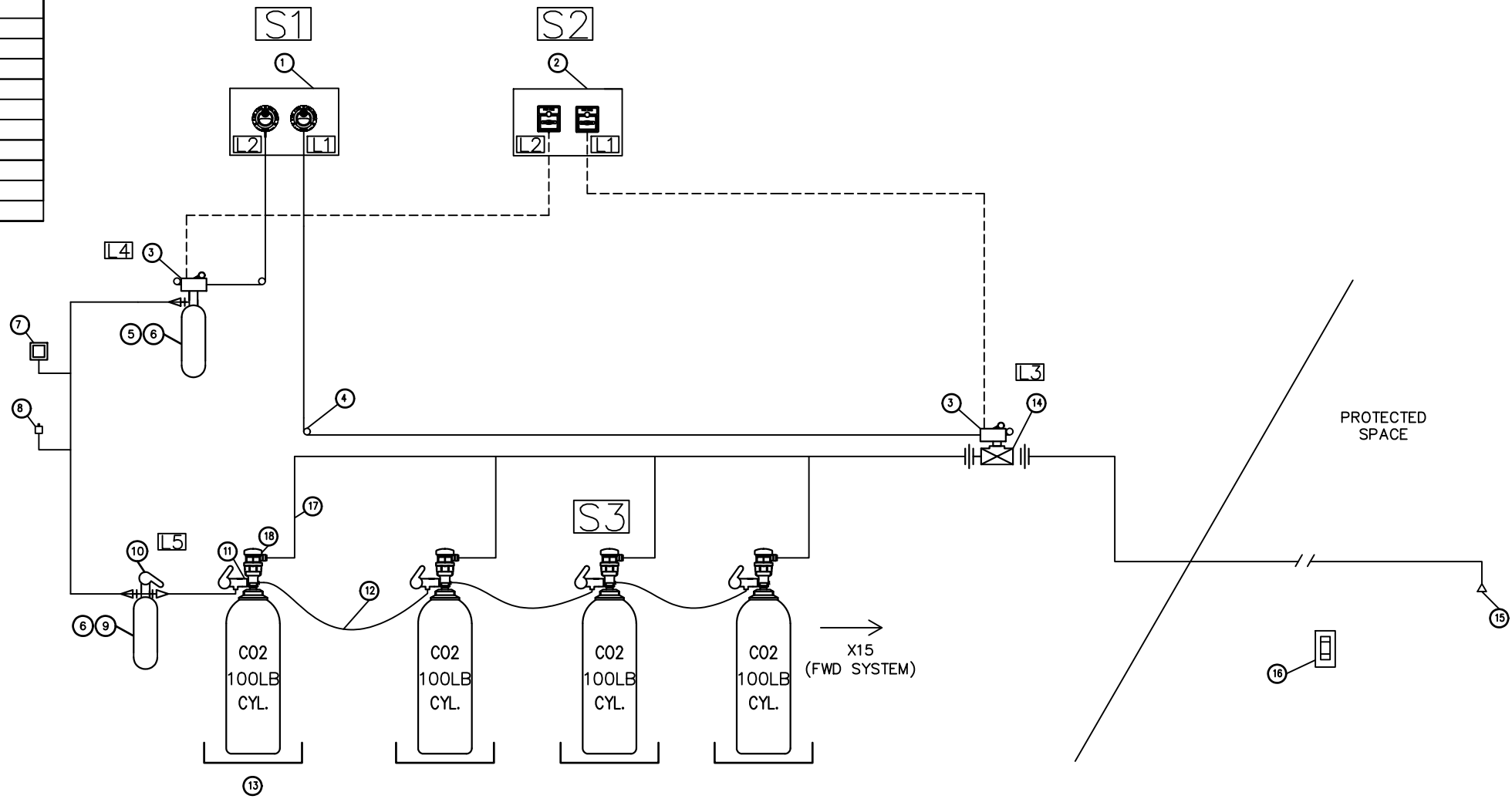
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BILL OF MATERIALS SHIP SET			FORWARD ACTUATION	AFT ACTUATION
NO.	PART NO.	DESCRIPTION	Quantity	Quantity
1	NOTE 1	IMO COMPLIANT CABLE OP RELEASE STATION	1	—
2	NOTE 1	IMO COMPLIANT ELECTRIC RELEASE STATION	1	1
3	85-895630-000	CABLE/ELECTRIC/MANUAL CONTROL HEAD	2	—
3	WK-890181-000	ELECTRIC/MANUAL CONTROL HEAD	—	2
4	81-803808-000	CORNER PULLEY MARINE	FIELD FIT	—
5	WK-877940-000	108 CUIN N2 PILOT	1	1
6	WK-877845-000	N2 CYLINDER BRACKET 108	2	2
7	NOTE 2	PRESSURE OPERATED SWITCH	—	—
8	81-803242-000	N2 SAFETY OUTLET	1	1
9	81-871072-001	N2 DISCHARGE DELAY 34SEC	1	1
10	WK-870652-000	LEVER OPERATED CONTROL HEAD	1	1
11	82-878751-000	PRESSURE LEAVER OPERATED CONTROL HEAD	15	4
12	WK-264987-000	22" N2 FLEX HOSE	15	4
13	NOTE 3	100LB CO2 CYLINDER	15	4
14	81-870032-000	1 1/2" STOP VALVE	1	—
14	81-870022-000	3/4" STOP VALVE	—	1
15	NOTE 4	1/2" S-TYPE DISCHARGE NOZZLE	18	4
16	P2RKA	HORN/STROBE	1	1
17	WK-251821-000	3/4" DISCHARGE HOSE	15	4
16	81-872450-000	PLAIN NUT DISCHARGE HEAD	15	4

- NOTE:
- REMOTE RELEASE STATIONS MUST USE KIDDE LISTED EQUIPMENT AND COMPLY WITH FSS IMO CODE CHAPTER 5, 2.2.2
 - EXISTING PRESSURE OP SWITCHES TO REMAIN IN PLACE
 - EXISTING CYLINDERS TO BE TAKEN TO A TRANSPORT CANADA APPROVED CYLINDER REQUALIFICATION SERVICE SHOP FOR HYDROTESTING AND RECHARGE. EACH CYLINDER TO BE EQUIPPED WITH NEW KIDDE 5/8" I-VALVE PT# WK-840253-000 AND NEW KIDDE SYPHON TUBE PT# WK-202332-000
 - NOZZLE PT# TO BE BASED ON "AS BUILT CALCULATIONS"



General Note: The service provider must be factory trained and certified through Kidde Fire Systems

REV.	DATE	BY:	CHK:	APPR:	DESCRIPTION
0	09/24/2018	AGM	MD	MD	ISSUED FOR CLIENT REVIEW
1	04/12/2019	AGM	MD	MD	Annunciation Note
2	05/20/2019	AGM	MD	MD	Actuation Arrangement redesigned



Don Brenton's Fire Protection
Lakeland, Nova Scotia, Canada
902-676-7879

The information contained herein includes information which is confidential and proprietary to Don Brenton's Fire Protection and may not be used or disclosed without written consent.

TITLE: Sir William Alexander
Forward / Aft Cargo Actuation Arrangement

CLIENT: Canadian Coast Guard	DATE: 2019-05-20	SHEET: 1 OF 2
APPROVALS: CLIENT REF/LOCATION: Halifax, N.S.	SCALE: NTS	DWG NO: REV: 2
CLASS: # PART NO.	DWG: AGM	CHK: MD APPR: MD
FLAG: #		DB18356 - M-001

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SYSTEM OPERATION SIGNAGE		
PART NO.	DESCRIPTION	LOCATION
S1,S2	FWD CARGO HOLD CO2 SIRE SUPPRESSION SYSTEM In case of fire Evacuate space, close all hatches and doors TO OPERATED FIRE SYSTEM (1) Pull Handle #1 Valve Control (2) Pull handle #2 Cylinder Control System will discharge in 30 seconds. If system fails to operate, follow emergency instructions at CO2 cylinder bank. Do not enter forward cargo hold without authorization	FORWARD HOLD REMOTE RELEASE STATION FORWARD CO2 CYLINDER STORAGE ROOM FIREFIGHTING STATION UPPER DECK
S3	FWD CARGO HOLD CO2 SIRE SUPPRESSION SYSTEM EMERGENCY USE ONLY TO OPERATE CO2 SYSTEM (1) Pull Pin/Flip Lever #1, Stop Valve (2) Pull Pin/Flip Lever #2, Main Pilot Cylinder System will discharge in 30 seconds TO OVERRIDE DISCHARGE DELAY Pull pin/flip lever #3 on discharge delay Do not enter forward cargo hold without authorization	FORWARD CO2 CYLINDER BANK
S2	AFT CARGO HOLD CO2 SIRE SUPPRESSION SYSTEM In case of fire Evacuate space, close all hatches and doors TO OPERATE FIRE SYSTEM (1)Pull Handle #1 Valve Control (2)Pull Handle #2 Cylinder Release Cylinder will discharge in 30 seconds. If system fails to operate, follow emergency instructions at CO2 cylinder bank Do not enter Aft Cargo Hold without authorization	AFT HOLD REMOTE RELEASE STATION AT FIREFIGHTING STATION UPPER DECK
S3	AFT CARGO HOLD CO2 SIRE SUPPRESSION SYSTEM EMERGENCY USE ONLY TO OPERATE CO2 SYSTEM (1) Pull Pin/Flip Lever #1, Stop Valve (2) Pull Pin/Flip Lever #2, Main Pilot Cylinder System will discharge in 30 seconds TO OVERRIDE DISCHARGE DELAY Pull pin/flip lever #3 on discharge delay Do not enter aft cargo hold without authorization	AFT CO2 CYLINDER BANK

REV.	DATE	BY:	CHK:	APPR:	DESCRIPTION
0	09/24/2018	AGM	MD	MD	ISSUED FOR CLIENT REVIEW
1	04/12/2019	AGM	MD	MD	Annunciation Note
2	05/20/2019	AGM	MD	MD	Actuation Arrangement redesigned

SYSTEM OPERATION LABELS		
PART NO.	DESCRIPTION	LOCATION
L1	#1 VALVE CONTROL	REMOTE RELEASE STATION
L2	#2 CYLINDER RELEASE	REMOTE RELEASE
L3	#1 STOP VALVE	AT CYLINDER BANKS
L4	#2 MAIN PILOT CYLINDER	AT CYLINDER BANKS
L5	#3 DISCHARGE DELAY OVERRIDE	AT CYLINDER BANKS

WARNING SIGNS		
PART NO.	DESCRIPTION	LOCATION
06-281866-856	Kidde Actuation Warning Sign	ACTUATION STATIONS
06-281866-851	Kidde Vacate Warning Sign	ENTRANCES AND INSIDE PROTECTED SPACES

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		TITLE: Sir William Alexander Forward / Aft Cargo Actuation Arrangement			
CLIENT: Canadian Coast Guard		DATE: 2019-05-20		SHEET: 2 OF 2	
APPROVALS	CLIENT REF/LOCATION:	SCALE: NTS		DWG NO:	REV: 2
CLIENT: #	Halifax, N.S.				
CLASS: #	PART NO.	DWG:	CHK:	APPR:	DB18356 - M-001
FLAG: #		AGM	MD	MD	