

REFERENCE DOCUMENTS
 IET-3010.00-5420-200-P4X-001 - WATER / FOAM FIRE FIGHTING SYSTEMS
 IET-3010.00-1350-940-P4X-001 - SYSTEMS OPERATION PHILOSOPHY
 I-MC-3010.20-5420-947-P4X-001_0 - FIRE WATER SYSTEM
 I-MC-3010.20-5420-947-P4X-001_0 - FOAM DEMAND

- GENERAL NOTES**
- DESIGN FLOW RATE SHALL BE CONFIRMED BY PUMP SUPPLIER IN ORDER TO GUARANTEE COOLING OF THE PUMP UNIT.
 - PRESSURE BETWEEN LIFT AND BOOSTER PUMP SHALL BE DEFINED BY PUMP SUPPLIER.
 - THE MAIN FIRE BLOCK VALVES SHALL BE MOTORIZED AND ALSO MANUALLY OPERATED.
 - THE BLOCK VALVES INSTALLED AT THE BRANCH LINES SHALL HAVE EASY ACCESS TO GUARANTEE MANUAL OPERATION. WORK SHALL BE DONE AT THE SAME LEVEL OF THE UNIT FOR ALL VALVES. THOSE THAT CANNOT BE OPERATED MANUALLY DUE TO THE DIFFICULTY OF ACCESS, SHALL BE ALSO MOTORIZED.
 - ALL FIRE RING BLOCK VALVES, INCLUDING THOSE AT THE BRANCH LINES, SHALL BE PROPERLY IDENTIFIED WITH TAG SO THAT THEY ARE EASILY VISUALIZED.
 - LINE TO PRESSURIZE FIRE MAIN RING FROM JOCKEY PUMPS. PRESSURE AT HIGHEST POINT SHALL BE AT LEAST 100 kPa.
 - THE FEEDING CONSUMERS LOCATED AT HIGH POINTS SHALL BE PROVIDED WITH CHECK VALVES TO AVOID VACUUM AND WATER HAMMER.
 - THESE VALVES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO FIRE RING MAIN.
 - FOR INFORMATION ABOUT OPERATION CRITERIA, SEE IET-3010.00-1350-940-P4X-001 - SYSTEMS OPERATION PHILOSOPHY.
 - INTERNATIONAL SHORE CONNECTION FOR FIRE WATER SUPPLY ACCORDING TO SOLAS CHAPTER 12 REGULATION 10 AND FSS CODE, ONE LOCATED AT PORTSIDE AND ANOTHER AT STARBOARD.

HOLD TABLE

UB-5420501A	ADV-542001L (N1-101A)	ADV-542001D (N1-101D)	ADV-542001E (N1-101E)	ADV-542001F (N1-101F)	ADV-542001G (N1-101G)	ADV-542001H (N1-101H)	ADV-542001I (N1-101I)	ADV-542001J (N1-101J)	ADV-542001K (N1-101K)	ADV-542001L (N1-101L)	ADV-542001M (N1-101M)	ADV-542001N (N1-101N)	ADV-542001O (N1-101O)	ADV-542001P (N1-101P)	ADV-542001Q (N1-101Q)	ADV-542001R (N1-101R)	ADV-542001S (N1-101S)	ADV-542001T (N1-101T)	ADV-542001U (N1-101U)	ADV-542001V (N1-101V)	ADV-542001W (N1-101W)	ADV-542001X (N1-101X)	ADV-542001Y (N1-101Y)	ADV-542001Z (N1-101Z)		
UB-5420501B	ADV-542001M (M-10A DELU)	ADV-542001N (M-10B DELU)	ADV-542001O (M-10C DELU)	ADV-542001P (M-10D DELU)	ADV-542001Q (M-10E DELU)	ADV-542001R (M-10F DELU)	ADV-542001S (M-10G DELU)	ADV-542001T (M-10H DELU)	ADV-542001U (M-10I DELU)	ADV-542001V (M-10J DELU)	ADV-542001W (M-10K DELU)	ADV-542001X (M-10L DELU)	ADV-542001Y (M-10M DELU)	ADV-542001Z (M-10N DELU)	ADV-542001A (M-10O DELU)	ADV-542001B (M-10P DELU)	ADV-542001C (M-10Q DELU)	ADV-542001D (M-10R DELU)	ADV-542001E (M-10S DELU)	ADV-542001F (M-10T DELU)	ADV-542001G (M-10U DELU)	ADV-542001H (M-10V DELU)	ADV-542001I (M-10W DELU)	ADV-542001J (M-10X DELU)	ADV-542001K (M-10Y DELU)	ADV-542001L (M-10Z DELU)
UB-5420501C	ADV-542001A (M-11A DELU)	ADV-542001B (M-11B DELU)	ADV-542001C (M-11C DELU)	ADV-542001D (M-11D DELU)	ADV-542001E (M-11E DELU)	ADV-542001F (M-11F DELU)	ADV-542001G (M-11G DELU)	ADV-542001H (M-11H DELU)	ADV-542001I (M-11I DELU)	ADV-542001J (M-11J DELU)	ADV-542001K (M-11K DELU)	ADV-542001L (M-11L DELU)	ADV-542001M (M-11M DELU)	ADV-542001N (M-11N DELU)	ADV-542001O (M-11O DELU)	ADV-542001P (M-11P DELU)	ADV-542001Q (M-11Q DELU)	ADV-542001R (M-11R DELU)	ADV-542001S (M-11S DELU)	ADV-542001T (M-11T DELU)	ADV-542001U (M-11U DELU)	ADV-542001V (M-11V DELU)	ADV-542001W (M-11W DELU)	ADV-542001X (M-11X DELU)	ADV-542001Y (M-11Y DELU)	ADV-542001Z (M-11Z DELU)
UB-5420501D	ADV-542001A (M-12A DELU)	ADV-542001B (M-12B DELU)	ADV-542001C (M-12C DELU)	ADV-542001D (M-12D DELU)	ADV-542001E (M-12E DELU)	ADV-542001F (M-12F DELU)	ADV-542001G (M-12G DELU)	ADV-542001H (M-12H DELU)	ADV-542001I (M-12I DELU)	ADV-542001J (M-12J DELU)	ADV-542001K (M-12K DELU)	ADV-542001L (M-12L DELU)	ADV-542001M (M-12M DELU)	ADV-542001N (M-12N DELU)	ADV-542001O (M-12O DELU)	ADV-542001P (M-12P DELU)	ADV-542001Q (M-12Q DELU)	ADV-542001R (M-12R DELU)	ADV-542001S (M-12S DELU)	ADV-542001T (M-12T DELU)	ADV-542001U (M-12U DELU)	ADV-542001V (M-12V DELU)	ADV-542001W (M-12W DELU)	ADV-542001X (M-12X DELU)	ADV-542001Y (M-12Y DELU)	ADV-542001Z (M-12Z DELU)
B-5420502AB	ADV-542001A (M-13A DELU)	ADV-542001B (M-13B DELU)	ADV-542001C (M-13C DELU)	ADV-542001D (M-13D DELU)	ADV-542001E (M-13E DELU)	ADV-542001F (M-13F DELU)	ADV-542001G (M-13G DELU)	ADV-542001H (M-13H DELU)	ADV-542001I (M-13I DELU)	ADV-542001J (M-13J DELU)	ADV-542001K (M-13K DELU)	ADV-542001L (M-13L DELU)	ADV-542001M (M-13M DELU)	ADV-542001N (M-13N DELU)	ADV-542001O (M-13O DELU)	ADV-542001P (M-13P DELU)	ADV-542001Q (M-13Q DELU)	ADV-542001R (M-13R DELU)	ADV-542001S (M-13S DELU)	ADV-542001T (M-13T DELU)	ADV-542001U (M-13U DELU)	ADV-542001V (M-13V DELU)	ADV-542001W (M-13W DELU)	ADV-542001X (M-13X DELU)	ADV-542001Y (M-13Y DELU)	ADV-542001Z (M-13Z DELU)

REV	DATE	BY	CHKD	APPV
1				

INFORMATION IN THIS DOCUMENT IS PROPERTY OF PETROBRAS, BEING PROHIBITED OUTSIDE OF THEIR PURPOSE.
 E-COM OWNED TO PETROBRAS N.381 REV. M
 BPR00114-DE-3010.20-5420-943-P4X-001_0.ppt

PETROBRAS	ESUP		
CLIENT: MARLIM LESTE E SUL			
JOB: BASIC DESIGN - REVIT I			
AREA: MARLIM LESTE E SUL			
TITLE: UTILITY FLOW DIAGRAM FIRE WATER SUPPLY SYSTEM			
DESIGN: ESUP	EXEC: F3J0	CHECK: USX6	APPROV: EK0U
SCALE: NO SCALE	DRAWING: INTERNAL	SHEET: 01 OF 01	
DATE: Dec/21/23	NO: I-DE-3010.20-5420-943-P4X-001		