



| REFERENCE DOCUMENTS | | | |
|---|--|--|--|
| DR-ENGP-MI-1.3 - SAFETY ENGINEERING GUIDELINE | | | |
| I-ET-3000.00-0000-940-P4X-002 - SYMBOLS FOR PRODUCTION UNITS DESIGN | | | |
| I-ET-3010.00-1350-940-P4X-001 - SYSTEMS OPERATION PHILOSOPHY | | | |
| I-ET-3010.00-5420-260-P4X-001 - WATER / FOAM FIRE-FIGHTING SYSTEMS | | | |
| I-MC-3010.2Q-5424-947-P4X-001_0 - FOAM DEMAND | | | |

| EQUIPMENT | | | |
|----------------------------|---------------------------------|-------------|-------------------------|
| TAG | DESCRIPTION | TYPE | CAPACITY |
| B-Z-5424501-A/B (2 x 100%) | FOAM CONCENTRATE PUMP | ROTARY | 30 m ³ /h |
| E-Z-5424502 (1 x 100%) | FOAM PROPORTIONER (NOTE 1) | EJECTOR | 133.1 m ³ /h |
| E-Z-5424503 (1 x 100%) | FOAM PROPORTIONER (NOTE 1) | EJECTOR | 133.1 m ³ /h |
| E-Z-5424504 (1 x 100%) | FOAM PROPORTIONER (NOTE 1) | EJECTOR | 133.1 m ³ /h |
| TQ-Z-5424501 (1 x 100%) | FOAM CONCENTRATE STORAGE TANK | RECTANGULAR | 22 m ³ |
| TQ-Z-5424502 (1 x 100%) | FOAM CONCENTRATE STORAGE TANK | RECTANGULAR | 0.7 m ³ |
| TQ-Z-5424503 (1 x 100%) | FOAM CONCENTRATE STORAGE TANK | RECTANGULAR | 0.7 m ³ |
| TQ-Z-5424504 (1 x 100%) | FOAM CONCENTRATE STORAGE TANK | RECTANGULAR | 0.7 m ³ |
| Z-5424501 (1 x 100%) | FOAM CONCENTRATE SUPPLY PACKAGE | OTHER | 30 m ³ /h |
| Z-5424502 (1 x 100%) | FIXED FOAM SYSTEM FOR HELIDECK | | 133.1 m ³ /h |
| Z-5424503 (1 x 100%) | FIXED FOAM SYSTEM FOR HELIDECK | | 133.1 m ³ /h |
| Z-5424504 (1 x 100%) | FIXED FOAM SYSTEM FOR HELIDECK | | 133.1 m ³ /h |

GENERAL NOTES

- 1- VENTURI TYPE
- 2- DESIGN FOAM DEMAND FOR MAIN DECK COVERAGE BY FOAM MONITORS :
FOAM SOLUTION: 586.7 M3/H (8,445.4 LPM)
LGE: 17.0 M3/H
- 3- DESIGN FOAM DEMAND FOR OFFLOADING STATIONS COVERAGE BY FOAM MONITORS:
FOAM SOLUTION: 75 M3/H (1,250 LPM)
LGE: 2.3 M3/H
- 4- DESIGN FOAM DEMAND FOR HELIDECK COVERAGE BY FOAM MONITORS:
FOAM SOLUTION: 133.1 M3/H (2,217.8 LPM)
LGE: 4.0 M3/H

| REV. | DESCRIPTION | DATE | EXEC. | CHECK | APPROV. |
|------|----------------|----------|-------|-------|---------|
| 0 | ORIGINAL ISSUE | 06/10/23 | F3JD | USXB | EKGU |

INFORMATION IN THIS DOCUMENT IS PROPERTY OF PETROBRAS, BEING PROHIBITED OUTSIDE OF THEIR PURPOSE.
FORM OWNED TO PETROBRAS N-361 REV. M.
SPPIIDV111R-DE-3010.2Q-5424-943-P4X-002_0.ppt

BR PETROBRAS SRGE

CLIENT: MARLIM LESTE E SUL

JOB: BASIC DESIGN - REVIT I

AREA: MARLIM LESTE E SUL

TITLE: UTILITY FLOW DIAGRAM
FOAM SUPPLY SYSTEM - HULL

| | | | | | | | |
|--------|----------|---------|------|-------|------|---------|----------|
| DESIGN | ESUP | EXEC. | F3JD | CHECK | USXB | APPROV. | EKGU |
| SCALE | NO SCALE | DRAWING | | | | SHEET | 01 of 01 |

DATE: Oct/10/23 No: I-DE-3010.2Q-5424-943-P4X-002