

- 1. ALL COMPONENT & EQUIPMENT NUMBER ARE

- 940092
 6. THIS SYSTEM WAS SIZED ACCORDING TO DOCUMENT PRD-MEC-CLC-009 - COOLING WATER SYSTEM
- ESTE SISTEMA FOI DIMENSIONADO DE ACORDO COM O DOCUMENTO PRD-MEC-CLC-009 CÁLCULO DO SISTEMA DE ÁGUA DE RESFRIAMENTO.
 7. SYMBOLS REFERENCE SEE DOCUMENT 07-M-0-5-01

- 1. COOLING WATER RETURN VALVE FOR BALANCING THE
- BLOWDOWN.

 VÁLVULA SOLENÓIDE TEMPORIZADA PARA BLOWDOWN DA TORRE DE
- RESFRIAMENTO.

 4. COOLING TOWER 3 TOWERS OPERATING IN PARALLEL CENTRIFUGAL PUMP AND CHILLER FOR HVAC TWO IN OPERATION AND THE OTHER STAND-BY. CENTRIFUGAL PUMP AND CHILLER FOR PROCESS - ON IN OPERATION AND THE OTHER STAND-BY. IN CASE OF MAINTENANCE, THE COOLING TOWER HAS CAPACITY TO OPERATE 2 TOWERS IN PARALLEL.
- CONEXÃO PARA DOSAGEM DE PRODUTOS QUÍMICOS.
 THE COOLING TOWERS ARE INTERCONNECTED IN

- SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTOM OF ALL RISERS AND LOW
- 13. THE TEMPERATURE TRANSMITTER (TIT-940053)
 CONTROLS THE SPEED OF THE COOLING TOWERS'S FANS TO KEEP THE TEMPERATURE OF COOLING WATER SUPPLY AT 31,5°C.
- CHEMICAL DOSING VENDOR PACKAGE TO ALL PLANT.

Engineering

Design/Build

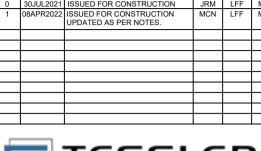
Compliance Consulting

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REVISION D NOTES

- FLOWRATES AND DIAMETERS HAVE BEEN UPDATED. ATUALIZAÇÃO DE VAZÕES E DIÂMETROS.
- THE FOLLOWING EQUIPMENT WERE ADDED IN COOLING WATER SYSTEM: - AIR COMPRESSORS
- PROCESS WASTE COOLER

AGUA DE RESFRIAMENTO: - COMPRESSORES DE AR - RESFRIADOR DE EFLUENTE DE PROCESSO **REVISION 0 NOTES**

- INCLUDED SHEET NOTES NUMBER 14. INCLUÍDO NOTA NÚMERO 14.
- INCLUDED "TO BMS" INFORMATION. INCLUÍDO INFORMAÇÃO "PARA BMS".

REVISION 1 NOTES AS PER N+1 UPDATE

- CONFORME ATUALIZAÇÃO N+1 INCLUDED SHEET NOTE NUMBER 15
- INCLUÍDA NOTA NÚMERO 15
- HOLD LIST

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P&I DIAGRAM DRUG PRODUCT COOLING WATER SYSTEM

ITD19439.01 DRAWN BY REVIEWED BY SCALE CADD FILE NAME MPA cco NONE 7A-M-0-5-42 1 PID -

7A-M-0-5-42