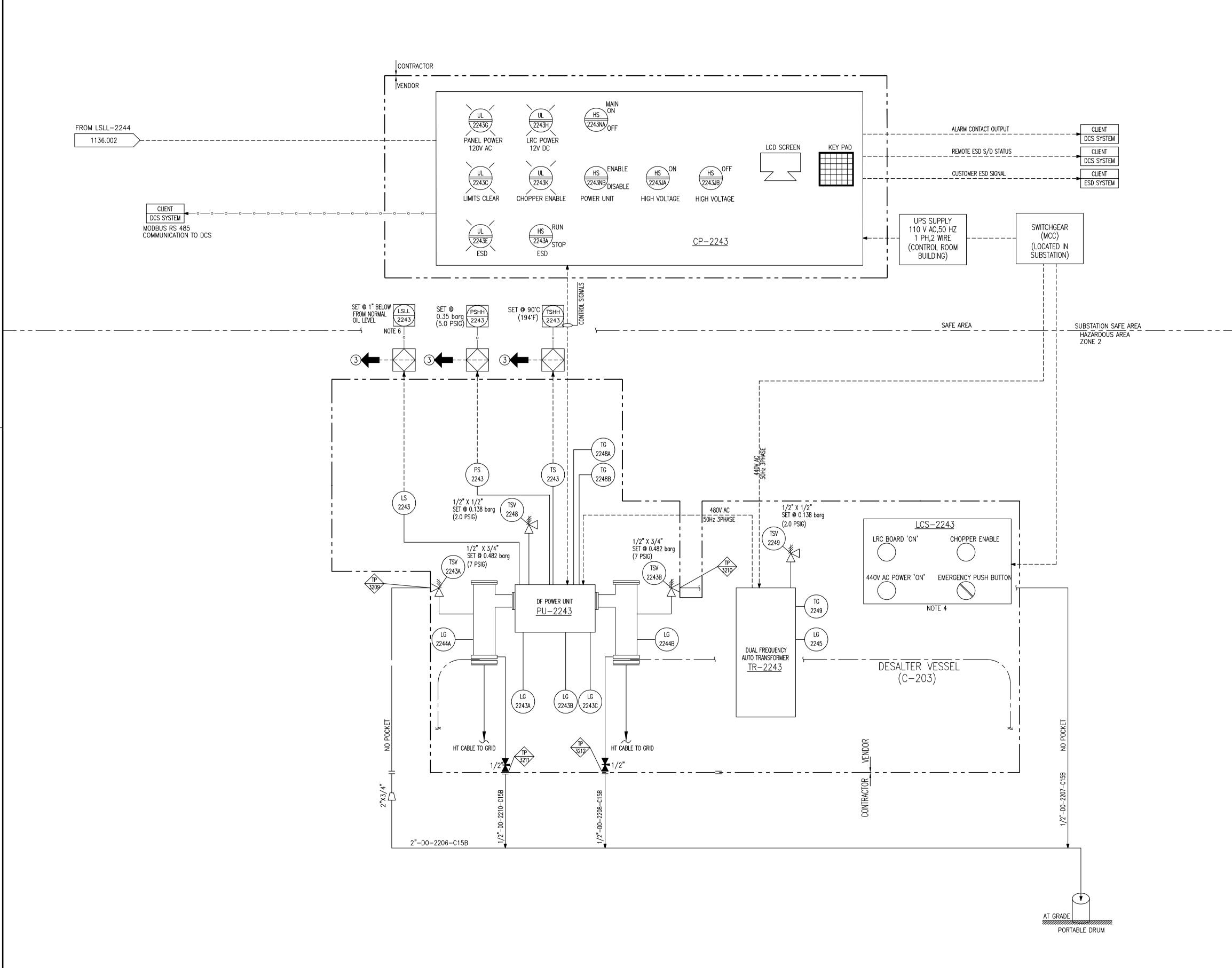
<u>PU-2243</u> DF POWER UNIT RATING: 100 KVA, 480 VAC, 50 HZ, 3PHASE PRIMARY CURRENT : 138AAC

SECONDARY VOLTAGE: 34 KV DC PEAK.

<u>TR-2243</u> DUAL FREQUENCY AUTO TRANSFORMER RATING: 136 KVA, 440 VAC, 50 HZ, 3PHASE PRIMARY CURRENT : 179AAC SECONDARY CURRENT : 164AAC

SECONDARY VOLTAGE : 480VAC

<u>CP-2243</u> DF LRC-II PANEL RATING: 110VAC, 50HZ, 1PHASE



GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002. B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530-.
- C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030-.
- D. FOR TYPICAL INSTRUMENT CONNECTION SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
- E. FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE & GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS PUMPS, STRAINERS & CONTROL VALVES SEE DRAWINGS 50489-530-020-PID-1108.001 TO 1108.010.
- F. Drawing numbers shown in P&ID continuation boxes are abbreviated showing drawing sequential NUMBERS ONLY. THE FULL FORM OF THE DRAWING NUMBER IS 50489-530-020-PID-XXXX.SHT.NO.
- G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
- H. DETAIL NUMBERING FOR CI. SC. CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
- I. PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001. J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
- K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009. L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

- 1,2,3. DELETED
- 4. EACH DUAL FREQUENCY DESALTER IS PROVIDED WITH LCS (LOCAL CONTROL STATION)
- IN THE FIELD FOR FOLLOWING: A. LRC BOARD 'ON' (INDICATION)
- B. CHOPPER ENABLE (INDICATION)
- C. 440V AC POWER 'ON' (INDICATION) D. EMERGENCY PUSH BUTTON.
- 5. TSV MOUNTED ON THE POWER UNIT IS PIPED TO AN OPEN DRAIN.
- 6. There are three internal liquid level switches in power unit (one in each tank) WHICH ARE WIRED IN SERIES TO A COMMON TERMINAL IN THE JUNCTION BOX.
- 7. VENDOR REFERENCE DOCUMENT/DRAWING IS AS FOLLOWS. DESALTER P&ID-(50489-530-020-07226-PID-V008). POWER UNIT DATA SHEET-(50489-530-070-07226-DAT-V001). AUTO TRANSFORMER DATA SHEET-(50489-530-070-07226-DAT-V002).

INSTRUMENT CABLE BLOCK DIAGRAM-(50489-530-080-07226-BLD-V001).

- CAUSE & EFFECT DIAGRAM-(50489-530-020-07226-CAE-V001).
- 9. TYPE OF FLUID IN TRANSFORMER: CROSS 206 MINERAL OIL (NON-PCB).
- 10. LIST OF ABRREVIATION DF: DUAL FREQUENCY
- HT: HIGH TENSION
- CP : DF LRC II PANEL
- LCS: LOCAL CONTROL SWITCH LRC: LOAD RESPONSIVE CONTROLLER
- TR : DF AUTO TRANSFORMER
- PCB: POLYCHLORINATED & BI-PHENYL
- PU: POWER UNIT

	AS-BUILT
K	OC APPROVAL
NAME / KOC	No:
DESIGNATIO	N :
GROUP / TEA	·M:
SIGNATURE :	
DATE :	

AS-BUILT						
LARSEN & TOUBRO LIMITI						
NAME :	VAIBHAV VERMA					
DESIGNATION:	AGM					
SIGNATURE :	Am					
DATE :	01-Sep-2018					
DEPT/ DIVISON :	ENGINEERING					

		881	- Bh	Rou	- Quegi	
ZO	ISSUED FOR AS-BUILT	HSH/SSI	AKG	SRA	DER	01.09.18
01	ISSUED FOR CONSTRUCTION	HSH/SSI	AKG	SRA	DER	27.12.16
0	ISSUED FOR CONSTRUCTION	PAK/PRS	AKG	SRA	RAK	09.06.16
В	ISSUED INCORPORATED CLIENT COMMENTS	PAK/ABY	AKG	SRA	RAK	14.04.16
Α	ISSUED FOR APPROVAL	JSI/VSA	AKG	SRA	RAK	28.10.15
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE
	5255.NI 11611	D10/0014	STILOTED	APPRD.		

CONTRACTOR REVISION



CONTRACTOR DETAILS:-



LARSEN & TOUBRO LIMITED FARIDABAD FARIDABAD

NEW GATHERING CENTRE GC-30 IN NORTH KUWAIT

DOCUMENT TITLE:-

PIPING & INSTRUMENTATION DIAGRAM

SECOND STAGE DESALTER POWER UNIT TRAIN-B (530-C-203)

DRAWING NO. REV. KOC DRG. NO. CONTRACTOR DRG. NO. 50489-530-020-PID-1136.004 SHEET NO. 4 OF 4 SHEET NO. EF1902 COMPANY DRG. NO. SHEET NO.