



- NOTES:
1. C.T. BUS ZONE TURNING RATIO:
400 kV 1/1000
275 kV 1/1200
132 kV 1/1200
 2. STATION BATTERY VOLTAGE 220 V D.C.
 3. ISOLATOR BLADES OPENING DIRECTION SHOWN ECONOMICALLY CORRECTLY.
 4. _____ INDICATES EXISTING
_____ FUTURE

AS-BUILT DRAWING

NO.	REVISIONS	DATE	BY	CHKD	APPD	REVISIONS	DATE	BY	CHKD	APPD
01	ISSUED AS PER BAY DESIGN					01	ISSUED AS PER BAY DESIGN			
02	ISSUED AS PER BAY DESIGN					02	ISSUED AS PER BAY DESIGN			
03	ISSUED AS PER BAY DESIGN					03	ISSUED AS PER BAY DESIGN			
04	ISSUED AS PER BAY DESIGN					04	ISSUED AS PER BAY DESIGN			
05	ISSUED AS PER BAY DESIGN					05	ISSUED AS PER BAY DESIGN			
06	ISSUED AS PER BAY DESIGN					06	ISSUED AS PER BAY DESIGN			
07	ISSUED AS PER BAY DESIGN					07	ISSUED AS PER BAY DESIGN			
08	ISSUED AS PER BAY DESIGN					08	ISSUED AS PER BAY DESIGN			
09	ISSUED AS PER BAY DESIGN					09	ISSUED AS PER BAY DESIGN			
10	ISSUED AS PER BAY DESIGN					10	ISSUED AS PER BAY DESIGN			
11	ISSUED AS PER BAY DESIGN					11	ISSUED AS PER BAY DESIGN			
12	ISSUED AS PER BAY DESIGN					12	ISSUED AS PER BAY DESIGN			
13	ISSUED AS PER BAY DESIGN					13	ISSUED AS PER BAY DESIGN			
14	ISSUED AS PER BAY DESIGN					14	ISSUED AS PER BAY DESIGN			
15	ISSUED AS PER BAY DESIGN					15	ISSUED AS PER BAY DESIGN			
16	ISSUED AS PER BAY DESIGN					16	ISSUED AS PER BAY DESIGN			
17	ISSUED AS PER BAY DESIGN					17	ISSUED AS PER BAY DESIGN			
18	ISSUED AS PER BAY DESIGN					18	ISSUED AS PER BAY DESIGN			
19	ISSUED AS PER BAY DESIGN					19	ISSUED AS PER BAY DESIGN			
20	ISSUED AS PER BAY DESIGN					20	ISSUED AS PER BAY DESIGN			
21	ISSUED AS PER BAY DESIGN					21	ISSUED AS PER BAY DESIGN			
22	ISSUED AS PER BAY DESIGN					22	ISSUED AS PER BAY DESIGN			

33 - kV				
C.B. RATING	BAY	DESCRIPTION	NOTES	
1500	25	FEEDER 1	IMPULSION 2	
1500	20	FEEDER 2	IMPULSION 1	

132 kV				
C.B. RATING	BAY	DESCRIPTION	NOTES	
2500	25	FEEDER 1	MILPANI 1	
3500	40	FEEDER 2	BOMME 1	
3500	40	BUS COUPLER A	FUTURE FOR 4	
2500	25	FEEDER 6	CORPORATION 2	
2500	25	FEEDER 6	CORPORATION 1	
3500	35	BUS COUPLER B	B/C REMOVED	
3500	40	B/B 1 B/S 1		
3500	40	B/B 2 B/S 1	FUTURE	

275 kV CAPACITOR BANKS				
C.B. RATING	BAY	DESCRIPTION	NOTES	
2500	40	CAPACITOR BANK 1	130.4 MVAR FEEDER 3	
4000	50	CAPACITOR BANK 2	130.4 MVAR FEEDER 4	

275/132 kV TRANSFORMERS				
C.B. RATING	BAY	DESCRIPTION	NOTES	
275	3500	50	TRANSFORMER 11	275/132 kV 250 MVA
132	3500	40		
275	4000	40	TRANSFORMER 12	275/132/22 kV 250/250/250 MVA
132	2500	40		
275	4000	40	TRANSFORMER 13	275/132/22 kV 250/250/250 MVA
132	2500	40		

400/275 kV TRANSFORMERS				
C.B. RATING	BAY	DESCRIPTION	NOTES	
400	2500	35.5	TRANSFORMER 1	400/275/22 kV 600 MVA
275	2500	35.5		
400	2500	36.1	TRANSFORMER 2	400/275/22 kV 600/600/250 MVA
275	2500	35.5		
400	2500	36.1	TRANSFORMER 3	400/275/22 kV 600/600/250 MVA
275	2000	21		

275 - kV				
C.B. RATING	BAY	DESCRIPTION	NOTES	
3500	50	FEEDER 1	HECTOR 1	
2000	35.5	FEEDER 2	GEORGE DALE 2	
3500	50	FEEDER 6	AVON 1	
3500	50	FEEDER 6	AVON 2	
4000	50	BUS COUPLER 'A'	CB CHANGED CHNGT	
4000	50	BUS COUPLER 'B'	CB CHANGED CHNGT	
4000	50	No.1-BUS SECTION 1	CB CHANGED CHNGT	
4000	50	No.2-BUS SECTION 1	FUTURE	

400 - kV				
C.B. RATING	BAY	DESCRIPTION	NOTES	
2500	35.5	FEEDER 1	VENUS 1	
4000	50	FEEDER 2	PEGASUS 1	
2500	30.9	FEEDER 3	CHIVELSTON 1	
4000	50	FEEDER 4	HECTOR 2	
4000	50	FEEDER 5	HECTOR 2	
4000	50	FEEDER 6	HECTOR 2	
2500	30.9	TRANSFORMER		
2500	35.5	BUS COUPLER 'A'		
2500	35.5	No.1-BUS SECTION 1	FUTURE	
2500	35.5	No.2-BUS SECTION 1		

MERSEY SUBSTATION

STATION ELECTRICAL DIAGRAM

0.07/11257

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