



APOLLO 275KV LINE (EXISTING)
 (APOLLO LINE DOWNRATED DURING EPP CONDITION)
 BRKV EPP BYPASS (SEE NOTES A & 5)
 275KV ISOL

FINAL DESIGN FOR CONSTRUCTION

275 - 11 kV		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6
CL. RATING	DESIGNATION	PRE 1983	1983	1985	1985	1995	2007
4000	FEEDER 1	✓					
4000	FEEDER 2	✓					
4000	FEEDER 3	✓					
4000	FEEDER 4	✓					
4000	FEEDER 5	✓					
4000	FEEDER 6	✓					
4000	FEEDER 7	✓					
4000	FEEDER 8	✓					
4000	FEEDER 9	✓					
4000	FEEDER 10	✓					
4000	FEEDER 11	✓					
4000	FEEDER 12	✓					

132 - 11 kV		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
CL. RATING	DESIGNATION	PRE 1983	1983	1985	1985	2007
2500	FEEDER 1	✓				
2500	FEEDER 2	✓				
2500	FEEDER 3	✓				
2500	FEEDER 4	✓				
2500	FEEDER 5	✓				
2500	FEEDER 6	✓				
2500	FEEDER 7	✓				
2500	FEEDER 8	✓				
2500	FEEDER 9	✓				
2500	FEEDER 10	✓				
2500	FEEDER 11	✓				
2500	FEEDER 12	✓				
2500	FEEDER 13	✓				

275/132 kV TRANSFORMERS		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
CL. RATING	DESCRIPTION	PRE 1983	1983	1985	1985	2007
275	TRANSFORMER 6	✓				
275	TRANSFORMER 8	✓				
275	TRANSFORMER 9	✓				

132/88 kV TRANSFORMERS		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
CL. RATING	DESCRIPTION	PRE 1983	1983	1985	1985	2007
132	TRANSFORMER 1	✓				
132	TRANSFORMER 3	✓				
132	TRANSFORMER 4	✓				

275/88 kV TRANSFORMERS		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
CL. RATING	DESCRIPTION	PRE 1983	1983	1985	1985	2007
275	TRANSFORMER 11	✓				
275	TRANSFORMER 12	✓				

- NOTES:
- BUS ZONE RATIOS
 - STATION BATTERY VOLTAGE 275 V D.C.
 - STATION BATTERY VOLTAGE 132 V D.C.
 - SHOWN GEographically CORRECT
 - BYPASS CONDITION: LOSS OF TRANSFORMATION AT JUPITER
 - BBKV IS SUPPLIED FROM ESSELEN TO JUPITER ON 275KV
 - APOLLO FEEDER IS SUPPLIED TO REMOTE-END ISOLATED
 - ISOLATORS ON 275KV TO BE USED DURING BYPASS CONDITION
 - EPP BYPASS PROJECT TO BE CONSTRUCTED FIRST.
 - BBKV FOR 11 TO BE UTILIZED INITIALLY.
 - BBKV FOR 11 WILL THEN BECOME FEEDER BAY 12

BUS ZONE RATIOS		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
CL. RATING	DESCRIPTION	PRE 1983	1983	1985	1985	2007
275	1/1600	✓				
132	1/1200	✓				
88	1/500	✓				

ESKOM HOLDINGS LIMITED		REC. NO.	2002/01527/06
ESKOM Transmission		DATE	12/11/2008
DATE	12/11/2008	BY	W. J. VAN DER MERWE
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