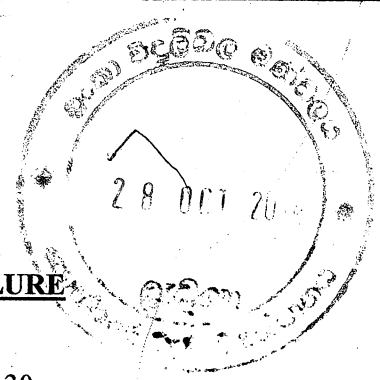


C.E. (System Control Centre),



REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 24/10/2014 Time: hrs 15:30

Failure at a Glance: At 15:30 hrs Anuradhapura line 02 (220 kV CB 230 tripped and CB 210 was in open position for Annual Maintenance) tripped.

Pre-fault condition:

Generators

Unit No.	MW	MVAr	Voltage kV	AVR on/off	Governor	Remarks
01	30	40	14.1	ON	AUTO	15:30 hrs Readings
02	60	35	14.2	ON	AUTO	15:30 hrs Readings
03	-	-	-	-	-	-

Transmission Lines (Readings at 15:00 hrs)

Transmission Line	MW	MVAr	A	kV
Vic 01	57	26	171	225
Vic 02	56	25	168	223
Anu 01	44	20	127	223
Anu 02	44	19	124	223
UK 01	76	27	204	224
UK 02	77	26	206	225
Biy 01	140	108	462	223
Biy 02	135	110	471	223

(b). Nature of failure:

Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Anuradhapura line 02	Auto	15:30 hrs	At Control room Anuradhapura line 02 1 st Main Protection Operated 2 nd Main Protection Operated Backup Protection Operated Inter trip received Anuradhapura line 01 1 st Main Protection Operated 2 nd Main Protection Operated Backup Protection Operated

At Relay room

Anuradhapura line 02

- F871 Diff. Main 1 Relay
 - General Trip
 - N Pickup
 - Zone 1/ Z1B
 - 21/67N CR SEND
 - 21/67N CR RECEIVED
- F21 Dist. Main 2 Relay
 - B Ph Pickup
 - N Pickup
 - Zone 1/ Z1B
 - 21/67N CS
 - 21/67N CR
 - AR OPTD

Anuradhapura Line 01

- F871 Diff. Main 1 Relay
 - General Trip
 - B Ph Pickup
 - N Pickup
 - Diff
 - Z1/Z1B
 - 21/67 CS
 - 21/67 CR
- F21 Dist. Main 2 Relay
 - B Ph Start
 - N Start
 - Z1 Trip
 - CS 21/67N

Victoria Line 01

- Main 2 Relay
 - Pickup L3
 - Pickup E

Upper Kotmale Line 01 & 02

- Main 1 Protection
 - Ground Fault
- Main 2 Protection
 - Ground Fault

Biyagama Line 01

- F871 Diff. Main 1 Relay
 - N Pickup
- F21 Dist. Main 2 Relay
 - Career Received

Biyagama Line 02

- F871 Diff. Main 1 Relay
 - N Pickup
- F21 Dist. Main 2 Relay
 - Career Received

Gen. TF 01

- F87T TR Diff Main 1
 - Relay Pickup

			<ul style="list-style-type: none"> • F87N TR Diff Main 1 - Relay Pickup <p>Gen. TF 02</p> <ul style="list-style-type: none"> • F87T TR Diff Main 1 - Relay Pickup • F87N TR Diff Main 1 - Relay Pickup <p>Gen. TF 03</p> <ul style="list-style-type: none"> • F87T TR Diff Main 1 - Relay Pickup • F87N TR Diff Main 1 - Relay Pickup
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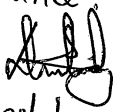
3. Restoration

Equipment	Restored time
Anuradhapura Line 02 (CB 230)	15:55 hrs

4. Brief description of incident by officer in charge [OEE] at that time:

220 kV Circuit Breaker 230 tripped due to activation of 1st and 2nd Main Protection of Anuradhapura line 02. As instructed by SCC, CB 230 was closed at 15:55hrs after resetting the indications.

5. Remedial actions taken to avoid reoccurrence of such failure / [EE (M)'s note]:

Outside disturbance

 03/11/2014

6. Remarks

due to a outside disturbance.



CHIEF ENGINEER

 Officer In-Charge of the Power Station
 Ceylon Electricity Board
 MAWATURA

Date: 2014/10/24