

C.E. (System Control Centre),



REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 15/06/2015 Time: 11:23 hrs

Failure at a Glance: At 11:23 hrs Anuradhapura Line 1 tripped from Kotmale with indications 2nd main protection operated and Backup protection operated at control room.

Pre-fault condition:

Generators:

Readings at: 11:00 hrs

| Unit No. | MW | MVar | Voltage kV | AVR on/off | Governor | Remarks |
|----------|----|------|------------|------------|----------|---------|
| 01 | - | - | - | - | - | - |
| 02 | 32 | 05 | 13.9 | on | auto | - |
| 03 | - | - | - | - | - | - |

Transmission Lines:

Readings at: 11:00 hrs

| Transmission Line | MVar | MW | A | kV |
|-------------------|------|----|-----|-----|
| Vic 01 | 17 | 03 | 48 | 228 |
| Vic 02 | 16 | 3 | 47 | 227 |
| Anu 01 | 23 | 23 | 90 | 226 |
| Anu 02 | 23 | 22 | 90 | 226 |
| UK 01 | 2 | 3 | 7 | 227 |
| UK 02 | 2 | 2 | 9 | 228 |
| Biy 01 | 51 | 56 | 201 | 226 |
| Biy 02 | 51 | 54 | 203 | 226 |

| | |
|--|--|
| ME | |
| EE(C&I) | |
| EE(M) | |
| EE(O) | |
| EE(Nil) | |
| SO | |
| CC | |
| SK | |
| For Your Information and Necessary actions Please: | |
| CE (Kotmale) | |
| Date | |

(b). Nature of failure:

| Equipment | Auto/Man trip | Time of tripping | Indications/Remarks |
|----------------|---------------|------------------|---|
| Anuradhapura 1 | Auto | 11:23 hrs | At Control Room <ul style="list-style-type: none">• 2nd Main Protection Operated• Backup Protection Operated At Relay Room: <ul style="list-style-type: none">• F871 Main 1 Protection<ul style="list-style-type: none">○ General Trip○ Y Pickup○ N Pickup○ Zone 1/1B Trip○ Diff. Trip○ Carrier Send |

| | | | |
|-----------------|-----|-----|---|
| | | | <ul style="list-style-type: none"> ○ Carrier Received ○ Com. Fail ● F21 Main 2 Protection <ul style="list-style-type: none"> ○ Trip ○ Alarm |
| Victoria 1 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● F871 Main 1 Protection <ul style="list-style-type: none"> ○ N ○ CR ○ Com. Fail ● F872 Main 2 Protection <ul style="list-style-type: none"> ○ N Pickup |
| Anuradhapura 2 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● F871 Main 1 Protection <ul style="list-style-type: none"> ○ N Pickup ○ Com. Fail ● F21 Main 2 Protection <ul style="list-style-type: none"> ○ N Pickup |
| Victoria 2 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● F871 Main 1 Protection <ul style="list-style-type: none"> ○ N Pickup ● F21 Main 2 Protection <ul style="list-style-type: none"> ○ N Pickup |
| Biyagama 1 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● F871 Main 1 Protection <ul style="list-style-type: none"> ○ N Pickup |
| Biyagama 2 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● F871 Main 1 Protection <ul style="list-style-type: none"> ○ N Pickup |
| Upper Kotmale 1 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● RED 670 Main 1 Protection <ul style="list-style-type: none"> ○ Ground Fault ● 7SA52 Main 2 Protection <ul style="list-style-type: none"> ○ Ground Fault |
| Upper Kotmale 2 | N/A | N/A | At Relay Room: <ul style="list-style-type: none"> ● RED 670 Main 1 Protection <ul style="list-style-type: none"> ○ Ground Fault ● 7SA52 Main 2 Protection <ul style="list-style-type: none"> ○ Ground Fault |

3. Restoration

| Equipment | Restored time |
|----------------|---------------|
| Anuradhapura 1 | 11:55 |

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

At 11:23 hrs Anuradhapura Line 1 tripped from Kotmale with indications 2nd main protection operated and Backup protection operated at control room. Informed SCC and restored the line after clearing all the indication as per the instructions by SCC.

*20th Div b. (EEO)
15/06/2015*

5. Remedial actions taken to avoid reoccurrence of such failure / TEE (C&I/ EEM)'s note]:

Tripping may be due to an outside fault. No faults were detected in kotmale machines or switchyard equipment.

*[Signature]
16/06/2015*

6. Remarks

No faults have been detected at kotmale P/S or S/Y may be due to a outside fault.

[Handwritten signature]

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

Date: 15/06/2015

Copy: DGM (MC) – f.i. Pl.