

C.E. (System Control Centre),

REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 18/06/2014 Time: 07:29 hrs

Failure at a Glance: At 07:29 hrs Unit 02 at Kotmale power Station tripped with indication Mechanical trip relay operated.

Pre-fault condition:

Generators

Unit No.	MW	MVar	Voltage kV	AVR on/off	Governor	Remarks
01	-	-	-	-	-	-
02	40	0	14.3	ON	Auto,ep1	Frequency control
03	-	-	-	-	-	-

Transmission Lines

Transmission Line	MW	MVar	A	kV
Vic 01	-20	10	0.05	233
Vic 02	-21	09	0.05	232
Anu 01	-17	25	0.08	231
Anu 02	off	off	off	off
Biy 01	10	-29	0.07	231
Biy 02	11	-27	0.08	231
UK 01	03	05	0.007	232
UK 02	03	03	0.009	233

(b). Nature of failure:

Equipment	Auto/ Man trip	Time of tripping	Indications/Remarks
Unit 02	Auto	07:29 hrs	At Power House Red Indications: <ul style="list-style-type: none">• Turst Bearing Metal Temperature high• Inlet Valve close Trip• PLC error At Control Room White Indications: <ul style="list-style-type: none">• Mechanical trip relay operated.

3. Restoration

Equipment	Restored time
Unit 02	08:29 hrs(18/06/2014)

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

The Unit 02 which was at frequency control operation tripped at 07:29 hrs on 18/06/2014. The indication was thrust bearing metal temperature high trip. However all indicated temperatures were normal (below 77 ° C). The PLC unit which was monitoring the temperature indicated an error in system. The corresponding sensor unit also indicated distorted readings with glitch.

The PLC unit was reset and problem disappeared after ward.

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

All interconnection points of the corresponding sensor and its paths were inspected, tested for continuity and retightened and replaced RTDs in thrust bearing.

[Signature]
20/06/14 EE(C&I)

6. Remarks

Fault occurred due to disconnection of a temperature sensor wire. Fault rectified & m/c is available for operation.

[Signature]
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Officer In-Charge of the Power Station

Date: 2014/06/18

CHIEF ENGINEER
Kotmale Power Station
Ceylon Electricity Board
MAWATURA

Copy: DGM (MC) - f.i. Pl