C.E. (System Control Centre),

REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 19/02/2015 Time: 13:18 hrs

Failure at a Glance: At 13:18 hrs. Unit 01 at Kotmale Power Station tripped with the indication Turbine Bearing Metal Temperature High.

Pre-fault condition:

Generators:

Readings at 13:00 hrs

Unit No.	MW	MVAr	Voltage kV	AVR on/off	Governor	Remarks
01	67	25	14.2	ON	Auto,ep2	-
02	-	-	-	-	-	-
03	-	-	-	-	-	-

Transmission Lines:

Readings at 13:00 hrs

Transmission Line	MVar	MW	A	kV
Vic 01	OFF	-	-	-
Vic 02	48	134	379	230
Anu 01	24	03	71	229
Anu 02	24	03	70	229
UK 01	04	22	51	230
UK 02	02	22	54	231
Biy 01	OFF	-	-	-
Biy 02	135	232	732	229

(b). Nature of failure:

Equipment	Auto/ Man trip	Time of tripping	Indications/Remarks
Unit 01	Auto	13:18	At Power House Red Indications: • Inlet Valve Closing Trip • Turbine Bearing Metal Temperature High At Control Room White Indications • Mechanical Trip Relay Operated

3. Restoration

Equipment	Restored time
Unit 01	13:50 hrs

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

At 13:18 hrs, Unit 01 at Kotmale Power Station tripped with indication Turbine Bearing Metal Temperature High. The temperature readings on Temperature Monitoring System at Control Gallery and the Dial Thermometer at Turbine Floor were as below at the time of tripping.

Temperature Reading on	Temperature
TGB Metal Temperature On Temp. Mon. Sys.	71 C (Trip 75 C)
TGB Oil Temperature On Temp. Mon. Sys.	68 C
TGB Dial Thermometer	62 C

None of the readings had reached the tripping level even though the machine had tripped with indication Turbine Bearing Metal Temperature High.

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

Tripping signal was originated due to internal fault of RANTA System. This was occured when trying to insert the values related to turbine guide bearing metal temp indicating channel. (PTD)
Barred access to ~~syst~~ RANTA system settings when m/c is at running condition.

6. Remarks

Trip signal has been taken from the PLC based temperature monitoring system & machine has been tripped due to an internal fault of the PLC based temperature monitoring system.

EE(C&I) 20/02/2015

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Officer In-Charge of the Power Station

Date: 19/02/2015

CHIEF ENGINEER
Kotmale Power Station
Ceylon Electricity Board
MAWATURA

Copy: DGM (MC) – T.I. PI.