

C.E. (System Control Centre),



REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station** Date: 28/05/2016 Time: 13:11 hrs

Failure at a Glance: At 13:11 hrs. Unit 01 –Mechanical trip relay operated at Kotmale Power Station with the indication

Turbine Guide Bearing Temperature Metal (Trip) operated

Pre-fault condition:

Generators:

Readings at 13:11 hrs

Unit No.	MW	MVar	Voltage kV	AVR on/off	Governor	Remarks
01	50	10	13.50	ON	Auto,ep2	
02	50	20	14.00	ON	Auto,ep2	
03	65	20	14.10	ON	Auto,ep2	

Transmission Lines:

Readings at 13:00 hrs

Transmission Line	MVar	MW	A	kV
Vic 01	31	72	214	225
Vic 02	29	71	211	224
Anu 01	16	02	52	224
Anu 02	16	02	51	221
UK 01	11	23	58	225
UK 02	10	22	61	225
Biy 01	-76	-189	543	223
Biy 02	-80	-187	549	222

(b). Nature of failure:


Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Unit 01- Turbine Guide Bearing Temperature Metal (Trip) operated	Auto	13:11	At Power House <ul style="list-style-type: none">Mechanical Trip Relay operated At Relay room <ul style="list-style-type: none">N/A At Control Room <ul style="list-style-type: none">White IndicationsMechanical Trip Relay operated

3. Restoration

Equipment	Restored time
Unit 01	13:38hrs on 28/05/2016

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

At 13:11 hrs, Unit 01 at Kotmale Power Station tripped with indication Mechanical Trip relay operated. The turbine guide bearing (Metal) trip had been operated from RANVA However; the dial gauge indications were at 66 Celsius and RANVA temperature monitoring system peak value was recorded as 76 Celsius.



28/05/2016
Eng. D.R.K. BOWATTE
Electrical Engineer (Operations)
Kotmale Power Station

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

Checked the temperature from dial thermometer. Temperature was at safe region. tripping channel of RANVA system was disabled and to avoid malfunction faulty tripping of u01. It was observed that connection terminal was loosen. Request of in/c outage (for 1/2 hr) is required to check & tighten the terminals. OE was informed to check the temperature rise using dial thermometer

6. Remarks

Fault has occurred due to a loosen terminal + now it has been fixed,


Eng. T. U. R. PEIRIS
Electrical Engineer (C & I)
Kotmale Power Station

.....
Officer In-Charge of the Power Station

Date: 28/05/2016

Eng. C.G.S. GUNASEKARA
Chief Engineer

Copy: DGM (MC) - f.i. P Kotmale Power Station