

C.E. (System Control Centre),

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19 AUG 2019

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REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station**

Date: 16/08/2019

Time: 08:22 hrs

1. Failure at a Glance:

At 08:22 hrs. Unit 01 Tripped due to operation of High Bearing Temperature (Therm) relay.

2. (a). Pre-fault condition:

Generators:

Readings at 08:22 hrs

Unit No.	MW	MVar	Voltage kV	AVR ON/off	Governor	Remarks
01	30	05	13.7	ON	Auto, ep2	-
02	68	05	14.0	ON	Auto, ep2	-
03	-	-	-	-	-	-

Transmission Lines:

Readings at 08:00 hrs

Transmission Line	MW	MVar	kV	A
Vic 01	-3	12	225	38
Vic 02	-4	11	223	36
Anu 01	-5	11	223	39
Anu 02	-5	11	223	39
UK 01	35	5	224	90
UK 02	37	3	225	93
Biy 01	-96	-29	223	269
Biy 02	-95	-31	222	272

(b). Nature of failure:


Equipment	Auto/M an trip	Time of tripping	Indications/Remarks
Unit 01	Auto	08:22	<p>At Control Room</p> <ul style="list-style-type: none">Mechanical Trip Relay OperatedNon Urgent Mechanical FaultBearing Abnormal <p>At Power House</p> <ul style="list-style-type: none">Emergency Shut DownInlet Valve Closing TripHigh Bearing Temp (Therm)Turbine bearing temp operated (Relay D9-143-107 operated)Turbine Head Cover Level HighTGB Oil Level High/Low

3. Restoration

Equipment	Restored time
Unit 01	Unit 01 generator was started & loaded 30MW at 13:26 hrs.


4. Brief description of incident by officer in charge [EE(O)] at that time:

At 08:22 hrs, Unit 01 tripped with indications mentioned above. Tripping occurred due to mixing TGB oil with water which spread upwards via shaft seal. So TGB oil sump was refilled with new oil and Unit 01 generator was started & loaded 30MW at 13:26 hrs.


19/08/2019
Eng. K.M.K. Kondasinghe
Electrical Engineer (Operation)
Kotmale Power Station

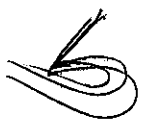
5. Remedial actions taken to avoid reoccurrence of such failure / [ME/EE (M)/ EE (C&D)'s note]:

The water shaft seal water leak is now increased to a high level & hence the operation of pumps at correct tower is important until the seals are replaced & repaired. Therefore, an extra person is arranged full time for monitoring of water level & the outage is requested to repair the leak.


Eng. H.A.S.P. PRIYANKARA
Mechanical Engineer
Kotmale Power Station

6. Remarks

U-3 Turbine shaft seal water leakage was successfully repaired. Same of U-1 will be done immediately.


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Officer In-Charge of the Power Station
Eng. U.R.S.S. SENADHIRATHNE
CHIEF ENGINEER
KOTMALE POWER STATION
Copy: DGM (MC) - f.i. Pl.

Date: 19/08/2019