

C.E. (System Control Centre),

REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE

Power Station: **Kotmale Power Station**

Date: 06/08/2019

Time: 10:53 hrs

1. Failure at a Glance:

At 10:53 hrs. Unit 03 Tripped due to operation of High Bearing Temperature (Therm) relay.

2. (a). Pre-fault condition:

Generators:

Readings at 10:52 hrs

Unit No.	MW	MVar	Voltage kV	AVR ON/off	Governor	Remarks
01	43	12	13.9	ON	Auto, ep2	-
02	-	-	-	-	-	-
03	27	8	13.9	ON	Auto, ep2	-

Transmission Lines:

Readings at 10:52 hrs

Transmission Line	MW	MVar	kV	A
Vic 01	-16	17	222	57
Vic 02	-16	17	221	57
Anu 01	33	5	221	93
Anu 02	33	5	222	92
UK 01	40	7	223	94
UK 02	40	6	223	96
Biy 01	-93	-43	221	265
Biy 02	-92	-44	221	269

(b). Nature of failure:


Equipment	Auto/M an trip	Time of tripping	Indications/Remarks
Unit 03	Auto	10:53	<p>At Control Room</p> <ul style="list-style-type: none">• Mechanical Trip Relay Operated• Non Urgent Mechanical Fault• Bearing Abnormal <p>At Power House</p> <ul style="list-style-type: none">• Emergency Shut Down• Inlet Valve Closing Trip• High Bearing Temp (Therm)• Turbine bearing temp operated (Relay D9-143-107 operated)• Turbine Head Cover Level High• TGB Oil Level High/Low

3. Restoration

Equipment	Restored time
Unit 03	Unit 03 was released for shaft seal repair since the reason for which to trip the unit was initiated due to un-controllable water leak through the shaft seal into the turbine head cover pit (Outage for the repair of shaft seal was already been requested from System Control Centre)

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

At 10:53 hrs, Unit 03 tripped with indications mentioned above.


A.M. Jayathilaka
Principal Engineer (Operations)
Kotmale Power Station
Ceylon Electricity Board
Kotmale

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

6. Remarks

Maintenance of shaft seal water leakage has already been started



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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) - I.I. Pl.

Date: 07/08/2019