

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 77⁰ 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.

6. Remarks

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



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Officer In-Charge of the Power Station

Date: 2014/06/18

Copy: DGM (MC) – f.i. Pl.