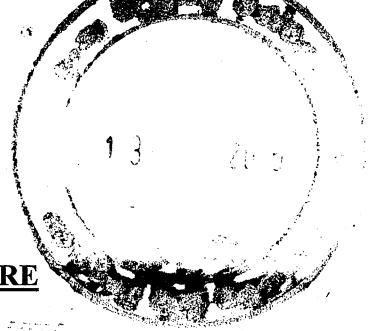


C.E. (System Control Centre),



**REPORT ON SYSTEM DISTURBANCE / PLANT FAILURE**

Power Station: **Kotmale Power Station** Date: 09/10/2015 Time: 21:47 hrs

**Failure at a Glance:** At 21:47 hrs. Unit 03 at Kotmale Power Station tripped with the indication Electrical Trip and Mechanical Trip Relays operated.

**Pre-fault condition:**

Generators:

Readings at 21:30 hrs

Unit No.	MW	MVar	Voltage kV	AVR AVR/FCR	Governor	Remarks
01	-	-	-	-	-	-
02	-	-	-	-	-	-
03	30	10	14	AVR	Ep2/Auto	-

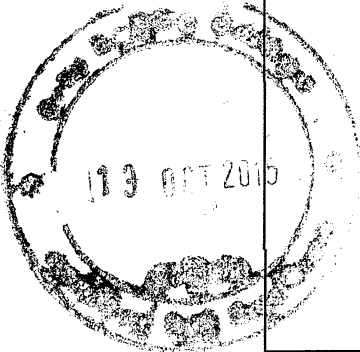
Transmission Lines:

Readings at 21:00 hrs

Transmission Line	MVar	MW	A	kV
Vic 01	25	-1	-	227
Vic 02	23	0		225
Anu 01	09	14		225
Anu 02	09	14		225
UK 01	10	52		226
UK 02	06	52		226
Biy 01	-53	-80		224
Biy 02	-52	-77	-	224

(b). Nature of failure:

Equipment	Auto/Man trip	Time of tripping	Indications/Remarks
Unit 03	Auto	21:47	At Power House  Red Indications: <ul style="list-style-type: none"><li>• Inlet Valve Closing Trip</li><li>• Emergency Shutdown</li><li>• Governor faulty</li><li>• Generator protection operated</li><li>• 881 (reg 670)<ul style="list-style-type: none"><li>◆ General trip (1)</li><li>◆ Over Voltage (5)</li><li>◆ VT fuse failed (15)</li></ul></li><li>• S 871<ul style="list-style-type: none"><li>◆ General Trip (1)</li><li>◆ Over Voltage(5)</li></ul></li></ul>



			<ul style="list-style-type: none"> <li>◆ VT fuse failed (15)</li> <li>• RBC 5 ,D09.101.312 Relay Flag on (VT fuse failed)</li> </ul> <p>At Control Room</p> <p>White Indications</p> <ul style="list-style-type: none"> <li>• Mechanical Trip Relay Operated</li> <li>• Electrical Trip Relay Operated</li> </ul>
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**3. Restoration**

Equipment	Restored time
Unit 03	14:24 hrs (10/10/2015)

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

At 21:47 hrs, Unit 03 at Kotmale Power Station tripped with indications Electrical Trip and Mechanical Trip Relays operated. The generator Over Voltage Protection had been triggered with Governor faulty. Governor pre- start conditions were all normal after the trip. An Electrocuted animal was located at the vicinity of unit 03 earthing transformer.

*[Signature]*  
2015/10/09

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

Insulation Resistances of U3 Generator & main transformer were measured and those are within acceptable regions. Tripping happened may be due to electricuted Palm Civet.

*[Signature]*  
13/10/2015.

**6. Remarks**

Machine tripping has been initiated due to electricution of a Palm Civet. Protection relay operation sequence is under investigation.

*[Signature]*

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

Date: 09/10/2015

**CHIEF ENGINEER**  
Kotmale Power Station  
Ceylon Electricity Board  
**MAWATURA**

Copy: DGM (MC) – f.i. Pl.