



Power System Operation Corporation Limited

Western regional Load Despatch Centre

FLASH REPORT

Incident: WRLDC/March-16/GT1

1. Date and Time: 11/03/2016 02:20Hrs.

2. Antecedent Conditions

I. Frequency of NEW Grid/SR Grid

Event	Frequency(Hz)	Time(hh:mm)
Pre incident	49.96	02:19
Post Incident	50.03	02:23

II. Demand and Generation of WR

	WR Generation (MW)	WR Demand (MW)	Time(hh:mm)
Pre incident	39261	39163	02:19
Post Incident	38909	38878	02:23

III. Demand and Generation of Maharashtra

	MSEB Generation (MW)	MSEB Demand (MW)	Time(hh:mm)
Pre incident	10737	15560	02:19
Post Incident	10705	15236	02:23

Total Load loss observed in scada is **324MW**. Although Maharashtra claimed that total load loss is **~100MW** due to 100KV kalwa nocil I&II and 100KV kalwa washi I tripping.

3. Tripping Events:

1. 220/22kv 50MVA T/F no. 1 at **Kalwa** got fire on dtd. 11.03.16 02:20 hrs. Due to fire, 220KV creek side bus operated & following lines & equipment tripped

1) 220KV Kalwa- Knowledge park

- 2) 220/100KV 200MVA ICT 1
- 3) 220/100KV 200MVA ICT 2
- 4) 220KV Bus section
- 5) 220KV interconnector

All these equipments are not charged yet.

- II. *Fires at 220/22kv 50MVA T/F no. 1 caused 220KV kalwa-knowledge park wavetrapp decoil & breaker R ph pole burst.*

Due to heavy fire, 100KV dummy bay jumper fall on 100KV bus bar which causes 100KV creek side busbar operated which causes following feeders tripped at 2:37hrs

- 1)100KV kalwa nocil II
- 2)100KV kalwa salsette I
- 3)100KV kalwa kalyan
- 4)100KV kalwa mukand II
- 5) 100KV kalwa mumbra
- 6) 100KV bus section

All these equipments are not charged yet

- III. *Due to fire at 220KV/22KV 50MVA T/f no. 1 oil drain in cable trenches due to which control cable burn which causes load trimming operated which causes following feeders tripped*

- 1)100KV kalwa nocil I
- 2)100KV kalwa washi I
- 3) 100KV Bus section
- 4) 22KV feeders 6 nos.

220KV Kalwa Apta line tripped at Apta end at 2:46 & charged at 3:10Hrs from apta end.

4. Actions Taken: The following elements are restored

SR · N O	S/S	Voltage KV	Line	From		To		Reasons
				DATE	TIME	DATE	TIME	
1	PADGH A	400KV	BLSR-2	11.03.2016	2:21	11.03.2016	6:27	TRIPPED ON O/V
2	PADGH A	400KV	TARAPUR-1	11.03.2016	2:21	11.03.2016	7:07	TRIPPED ON O/V.
3	KALWA	400/220 KV	500MVA ICT-1	11.03.2016	2:46	11.03.2016	6:38	TRIPPED DUE BURING OF DIFFERNTILA CONTROL CABLE.
4	KALWA	100KV	VASHI-1	11.03.2016	2:27	11.03.2016	3:21	TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
5	KALWA	100KV	SIFY	11.03.2016	2:27	11.03.2016	3:24	TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
6	KALWA	100KV	KALYAN	11.03.2016	2:27	11.03.2016	3:32	TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
7	KALWA	100KV	NOCIL-1	11.03.2016	2:27	11.03.2016	3:20	TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
8	KALWA	220KV	APTA	11.03.2016	2:46	11.03.2016	3:10	TRIPPED ONLY FROM APTA END.

5. Current Status:

The elements below are under restoration process.

SR · N O	S/S	Voltage KV	Line	From		To		Reasons
				DATE	TIME	DATE	TIME	
1	KALWA	220KV	CREEK SIDE BUS	11.03.2016	2:27			TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE. LOAD AFFECTED APPROX.-75MW.
2	KALWA	220/100KV	200MVA ICT-I	11.03.2016	2:27			TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
3	KALWA	220/100KV	200MVA ICT-II	11.03.2016	2:27			TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
4	KALWA	220KV	AIROLI KNOWLWDGE PARK	11.03.2016	2:27			TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
5	KALWA	100KV	CREEK SIDE BUS	11.03.2016	2:27			TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.
6	KALWA	100KV	NOCIL-2	11.03.2016	2:27			TRIPPED DUE TO NEWLY ERECTED 50MVA T/F -1 CAUGHT FIRE.

SLDC Kalwa is requested to furnish a detailed report along with relay/window indications and DR/EL.

(K.Muralikrishna)

Shift Charge Manager

WRLDC