



# Power System Operation Corporation Limited

## Western regional Load Despatch Centre

### FLASH REPORT

WRLDC/December/GD1

Incident: Bus Fault at 220kV Halkarni S/S (Maharashtra)

1. Date and Time: 13/12/2015 at 15:40Hrs.

#### 2. Antecedent Conditions

1. Frequency of NEW Grid/SR Grid

Event	Frequency	Time(HH:MM)
Pre incident	49.96 Hz	15:35
Post Incident	50.05 Hz	15:45

2. Reason for Tripping: R-Phase CT burst at Halkarni S/S of 220kV Halkarni- Mahalakhsmi-S/C line due to this Bus bar protection operated and all feeders connected to Bus tripped at 15:40HRS. Subsequently due to tripping, 220kV Mahalakhsmi -Amona-S/C line also tripped and 220kV Mahalakhsmi substation became dark.

#### 3. Areas Affected By Disturbance:

Generation loss at Mahalakhsmi is 5.1 MW.

Generation loss at Halkarni is 15 MW.

Load loss at Halkarni is 20 MW.

#### 4. Elements affected:

Feeder	Voltage	Tripping time	Restoration time
Halkarni-Mumebadi-I	220 kV	15:40 HRS	16:07 HRS
Halkarni-Mumebadi-II	220 kV	15:40 HRS	16:08 HRS
Halkarni-Tillari-S/C	220 kV	15:40 HRS	16:08 HRS
Halkarni- Mahalakhsmi -S/C	220 kV	15:40 HRS	Yet to be restore
Mahalakhsmi-Amona-S/C	220 kV	15:40 HRS	17:30 HRS
25 MVA Transformer-I at Halkarni	220/33 kV	15:40 HRS	16:10 HRS
25 MVA Transformer-II at Halkarni	220/33 kV	15:40 HRS	16:08 HRS

**5. Actions taken:** 220kV Halkarni-Mahalakshmi-s/c line isolated and all feeders at Halkarni restored. Subsequently Mahalakshmi – Amona s/c line charged to restore supply of Mahalakshmi.

**6. Current Status:** 220kV Halkarni- Mahalakshmi -s/c line is expected to come in service by 2300HRS/13.12.2015.

SLDC, Kalwa is requested to forward the details.

**P. Krishnamurthy**  
**(Shift Charge Manager)**