



Power System Operation Corporation Limited

Western regional Load Dispatch Centre

FLASH REPORT

WRLDC/March-2017/GD1/14-03-2017

Incident: Tripping of Bus 2 at Vadodra 400 kV while Bus 1 was under shut-down.

1. Date and Time: 14/03/2017 18:19hrs

2. Antecedent Conditions

1. Frequency of NEW Grid/SR Grid

| Event | Frequency(Hz) | Time(hh:mm:ss) |
|---------------|---------------|----------------|
| Pre incident | 50.10 | 18:19:30 |
| Post Incident | 50.10 | 18:19:35 |

2. Reason for Tripping: 400 kV Vadodra Bus 1 was already under shut-down since 10:37 hrs for interconnection of new 400kV Bus with existing 400kV Bus # 1&2 at Vadodara GIS. At 18:19 hrs, Vadodra Bus-2 also tripped due to configuration issue in Busbar Bay units of Extension bays leading to tripping of all feeders @ 400 kV Vadodra as intimated by RTAMC Vadodra.

3. Areas Affected By Disturbance: No generation loss and no load loss. All line flows were under safe limits.

4. Elements affected:

| Feeder/ICT | Tripping time (hh:mm) | Restoration time(hh:mm) | Remarks |
|-------------------------|-----------------------|-------------------------|---|
| 400 kV Bus 2@Vadodra | 18:19 | 19:33 | configuration issue in Busbar Bay units of Extension bays |
| 400 kV Vadodra Pirana 1 | 18:19 | 19:48 | configuration issue in Busbar Bay units of Extension bays |
| 400 kV Vadodra Pirana 2 | 18:19 | 19:51 | configuration issue in Busbar Bay units of Extension bays |
| 400 kV Vadodra Asoj 1 | 18:19 | 19:41 | configuration issue in Busbar Bay units of Extension bays |

| | | | |
|-----------------------|-------|-------|---|
| 400 kV Vadodra Asoj 2 | 18:19 | 19:42 | configuration issue in Busbar Bay units of Extension bays |
| 765/400 ICT 1@Vadodra | 18:19 | 19:33 | configuration issue in Busbar Bay units of Extension bays |
| 765/400 ICT 2@Vadodra | 18:19 | 19:54 | configuration issue in Busbar Bay units of Extension bays |

5. Generation Affected:

Nil

6. Actions Taken:

Associated Bays units had been swicthed off and isolated.

7. Change in Line flows:

| Line | Before Incident | After incident |
|---------------------------------|-----------------|----------------|
| 400 kV Pirana Pirana(Torrent) 1 | 364 MW | 308 MW |
| 400 kV Pirana Pirana(Torrent) 2 | 364 MW | 308 MW |
| 400 kV Indore Asoj 1 | 262 MW | 363 MW |
| 400 kV Indore Asoj 2 | 262 MW | 363 MW |
| 400 kV Dehgam Pirana 1 | 197 MW | 352 MW |
| 400 kV Dehgam Pirana 2 | 197 MW | 352 MW |
| 765 kV Indore Vadodra | 951 MW | 450 MW |

8. Current Status:

ALL FEEDERS RESTORED

9. Further action required:

Reason is mentioned as some configuration issue in Busbar Bay units of Extension bays which is vague. It is thus requested that the exact reason may be investigated and be intimated to WRLDC at the earliest.

WR-2 is requested to furnish flash and detailed reports including relay indications, DR, and EL at the earliest.

K Muralikrishna

(Shift Charge Manager)