

Phone No. 080-22243926

Fax No. 080-22110134

Website : www.kptcl.com



Email ID: dgmtkptcl@rediffmail.com

KARNATAKA POWER TRANSMISSION CORPORATION LTD.,
Corporate Identity Number (CIN): U40109KA1999SGC025521

No:KPTCL/B25/SEE/SCADA/EE/SCADA
(Designs)/AEE-SCADA-1/16-17/06

Encl :

Corporate Office,
Kaveri Bhavan,
Bengaluru - 560 009.

Dated: **27 MAY 2016**

CIRCULAR

Sub : Comparison of monthly computed data of SCADA and Station Log.

Ref : SEE/SCADA/EE/SCADA(Designs)/AEE-SCADA-1/16-17/06 Dated 30.04.2016.

Preamble

It is observed that there is a difference in the number of interruptions and duration of interruption, in the statement computed from the Station log by the Station staff and the report generated from SCADA data. A study and comparative analysis was carried out. Four stations from BESCO jurisdiction were selected for the analysis namely Channapatana 66kV, Tumkur 66kV, Bellavi 66kV and Sira 66kV. On analysis it is found that there are various reasons for these deviations. The SCADA system records every tripping of the breaker and interruption up to a resolution of one minute accuracy. In order to ensure a complete and accurate record, of the number and duration of interruptions, the following directions are issued to the all Sub-stations of KPTCL.

Hence this Circular

1. It is hereby instructed to follow the below procedure while preparing and submitting the Interruption statements by Station staff.
 - a. All tripping on fault and opening of breaker due to Line clear, changeover from single phase to 3 phase, Load shedding shall be recorded correctly.
 - b. Incoming Main supply failures may also be recorded with time separately.
 - c. Hand tripping of feeders shall be recorded by the Station operators with time and reasons without fail.
 - d. Contingency tripping of Feeders or Transformers from SLDC shall be recorded and included in the interruption statement.
 - e. The exact time of opening and closing of every breaker shall be recorded, during Line clear, Load shedding, Remote tripping from SLDC or Hand trips
 - f. In case of feeders that are Load shed, the exact time shall be recorded as against the scheduled time which is generally recorded.
 - g. Computation of tripping shall be done with at most care so that the duplication of numbers and duration are not duplicated if any of the above events happens at same time.
 - h. In some stations from single circuit breaker, i.e., from outgoing DP Structure multiple lines are connected. The issue has to be taken up with the AEE O&M in charge of the feeder so that separate circuit breaker feed each line.

EE (IT)	<input checked="" type="checkbox"/>
EE (MIS)	<input type="checkbox"/>
DCA (IT)	<input type="checkbox"/>
SEE (IT&MIS)	<input type="checkbox"/>

AEE-4/AE-1
28/5/2016

⑨ SE (IT & MIS)

- i. Over loading of feeders should be avoided. The Station incharge shall report the same to EE TL&SS. Also the same shall be conveyed to AEE O&M to take suitable action. **If no action is taken within 2 months of reporting, the matter shall be informed to Superintending Engineer (P&M), Kaveri Bhavan, KPTCL, Bangalore.**
 - j. Addition of new feeder or augmentation works in the station or change in feeder or line configuration has to be intimated to SCADA team to incorporate the same in the database once a month. The Executive Engineer, TL&SS of the respective Station shall send a report on the same by email **monthly** to pmcg.ies.kptcl@gmail.com, and confirm by a hard copy. If no changes are there, a nil statement shall be sent.
2. The Executive Engineer, TL&SS shall inspect 10% of the stations every month and compare the station log computation with the SCADA interruption statement received every month along with other routine works.
 3. The respective Superintending Engineers shall randomly inspect 5% of the stations to ensure that the above is strictly followed by all stations along with other routine works.
 4. The respective Chief Engineers shall randomly inspect 3% of the stations to ensure that the above is strictly followed by all stations.
 5. During inspection the Inspecting officers, shall also monitor, in the sub-station and take action on following:
 - a) Maintenance schedule of Transmission Line connected and sub-stations visited.
 - b) Monitoring of Idle equipment and action to be taken for repairs to equipment.
 - c) Maintenance of Equipment Register and its updation.
 - d) Details of the equipment, peak load/Over load and Major Interruption of Transmission Line and sub-stations of all transmission zones.
 - e) Profile of temperature of major equipments, banks, corridor encroachment, earth resistivity and monitoring of transmission lines.
 - f) Details of abnormal tripping of incoming lines & 11 kV feeders and action taken to minimize the same.
 - g) Working conditions of OLTC, Capacitor Bank.
 6. The respective Executive Engineers and Superintending Engineers shall also ensure and monitor, that the Interruptions reported due to tripping or Line clears on the Transmission system are duly reported every day to the respective Area Load Despatch Centres, for inputs to the Daily Transmission Interruption tracker.


Deputy General Manager (Tech)
KPTCL

Copy to:

1. The Chief Engineer (Electy.), SLDC, KPTCL, A.R. Circle, Bengaluru – 09.
2. The Chief Engineer (Electy.), RT and R&D, KPTCL, Kaveri Bhavan, Bengaluru – 09.
3. All the Chief Engineers (Electy.), Transmission Zone, KPTCL.
4. All the Superintending Engineers (EI), Works & Maintenance Circle, KPTCL.
5. The Superintending Engineer (EI), SCADA, KPTCL, A.R. Circle, Bengaluru.

6. Executive Assistant to Director (Transmission), KPTCL, Kaveri Bhavan, Bengaluru.
7. All Executive Engineers (EI), TL&SS Division, KPTCL, to communicate the instructions to every sub - station.
8. All Area Load Despatch Centers, Transmission Zones.
9. PS to Managing Director/ Director (Transmission)/ Director(Finance)/ Director & Company Secretary/ Director (A&HR) KPTCL, Kaveri Bhavan, Bengaluru.

Copy to:

✓ Superintending Engineer(EI), IT&MIS, KPTCL, Kaveri Bhavan, Bengaluru - with a request to upload this circular on the website of KPTCL.