

Government of India/Bharat Sarkar
Ministry of Power/Vidyut Mantralaya
Shram Shakti Bhawan, Rafi Marg, New Delhi

Dated, the 4th April, 2020.

Dear Principal Secretary/Secretary (Power)

This is with reference to the appeal of the Hon. Prime Minister to the people to voluntarily switch off their lights at 9.00 PM on the 5th April, 2020. The National Load Despatch Centre has worked out the procedures for grid balancing during the period which they will be communicating to the Regional and State Load Despatch Centres separately. It is requested that the following may be brought to the notice of all concerned.

The appeal of the Honourable Prime Minister to the people is to voluntarily switch off only the lights at 9.00 PM on the 5th April, 2020. There is no call to switch off either streetlights or appliances like TVs, Refrigerators and ACs in homes. Adequate arrangements and protocols are in place to handle the variation in demand. People should be assured not to worry and continue running all the appliances as usual.

Local bodies may be advised to keep the street lights on so as to avoid any law and order problems.

The lights in hospitals and other essential services will remain on.

Detailed instructions are being issued by POSOCO.

Yours sincerely,



(Sanjiv Nandan Sahai)
Secretary to the Govt. of India
Ministry of Power
New Delhi.

To
All Principal Secretaries/Secretaries (Power)

KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

*Office of the Chief Engineer, (Elec.)
State Load Despatch Centre
2B, Race Course Cross Road,
BANGALORE - 560 009*

DATE: 04-04-2020.

Sub: Advisory for Reliable & Secure System Operation during the lighting load off on 05th April 2020 at 21:00 hours for nine minutes.

Today, the meeting was held through Video Conferencing with National Load Dispatch Centre to discuss the Grid security during the above event. In line with the discussion made during the meeting, to ensure reliable and secure grid operation during above said upcoming event, all ESCOMs / Generators/ State Transmission Zones are required to kindly follow the below mentioned guidelines:-

A) **Estimate of demand reduction:** It is expected state demand of around 7800-8000MW at 21:00 hours on 05.04.2020 and there will be addition of around 250MW immediately after 21:00 hours which is of irrigation pump sets load. This additional load is to be allowed to avoid further reduction in load during the above said event. In total there will be reduction of around 700-800MW during the event.

B) **Generation Scheduling for frequency control:**

1. The primary response of all the generating units shall be in service.
2. KPCL has to reduce the Governor droop setting of Hydro units by 1-2 % from the current level for fast drop/ pickup during the event.
3. All the thermal generators/hydel Generators/ESCOMs/KPTCL Stations should follow the instructions of SLDC.
4. All the defense mechanisms such as AUFRR, df/dt and ADMS shall be in service and healthiness shall be ensured.
5. Sufficient man power shall be deployed to the generating stations to handle the situation.



C) Voltage control measures:

1. All remedial measures shall be taken by the Generators/ESCOMs/ KPTCL Zones to ensure the system voltages within the Indian Electricity Grid Code (IEGC) band.
2. All the reactors should put into service by 20:00 Hours to keep the voltages within the IEGC band.
3. Capacitors at Receiving Stations /Sub stations/at distribution level shall be kept off at 20: 45 hrs to maintain voltage at nominal level.
4. All the thermal and hydro units should absorb /generate reactive power as per capability curve positively to maintain the voltages at nominal level.

D) General guidelines:

1. ESCOMs should avoid opening/closing (switching) operations and also tripping of feeders.
2. Round the clock availability of communication with SLDC and other stake holders shall be ensured.
- ✓3. Continuity of power supply shall be ensured by ESCOMs to hospitals, residential feeders and other essential installations. Necessary direction may also be sent to resident welfare associations (RWA) not to switch off the main supply to residential apartments.
4. All the Transmission Zones shall ensure that sufficient staff are deployed to the stations.
5. All the Generators / transmission Zones shall ensure the black stak facilities in healthy conditions.
- ✓6. **ESCOMs shall request the consumers to SWITCH OFF the lights only and other electrical equipment's/gadgets such as Refrigerators, Air conditioners, Coolers, Fans etc. shall be kept ON(in service) during the above period.**
- ✓7. **The Local bodies both urban & rural, may be advised to keep the street lights ON.**



CHIEF ENGINEER (E16)
State Load Dispatch Centre, KPTCL,
28, Race Course Cross Road,



ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ.)

ನಿಗಮ ಕಛೇರಿ,

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HUBLI ELECTRICITY SUPPLY COMPANY LIMITED

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Corporate Identity Number (CIN): U31401KA2002SGC030437

No. HESCOM/GM(T)/EM/EE/AEE-2/19-20/

Date:

MESSAGE

To,

- 1) CEE, O&M Zone, HESCOM, Hubli/Belgaum
- 2) All SEE, O&M Circles, HESCOM.
- 3) All Executive Engineers (Ele), O&M Divisions, HESCOM.
- 4) All Executive Engineers (Ele), 33KV S&L Divisions, HESCOM.

Due to upcoming "Appeal of Hon'ble Prime Minister to switch off lights in houses at 9.00pm for 9 minutes on 05.04.2020. SLDC KPTCL Bangalore has issued following direction to maintain grid stability.

1. All capacitor banks in 33/11 KV substations are to be kept off from 8:45 pm to 9:30 pm.
2. No feeders should be hand tripped or shut down during that period unnecessarily.
3. Voltage of all Power Transformers are to be monitored and the tap changer should be at such a position so that Secondary voltage should be within the Indian Electricity Grid Code band.
4. All Station JE/ In-charge shall be at Substation during that period and monitor the voltage , frequency and load.
5. All Executive Engineers (El), 33 KV Nodal and AEE 33 KV Nodal officers shall be in any one of the jurisdiction substation and from their they have to monitor the situation coming under their jurisdiction.
6. Continuity of power supply shall be ensured to hospitals, residential feeders and other essential installations. Necessary direction may also be sent to resident welfare associations (RWA) not to switch off the main supply to residential apartments.
7. Request the consumers to SWITCH OFF the lights only and other electrical equipment's/gadgets such as Refrigerators, Air conditioners, Coolers, Fans etc. shall be kept ON (in service) during the above period.
8. Advice the Local bodies both urban and rural to keep the street lights ON.

Advisory for Reliable and Secure System Operation during the lighting load off on 05th April 2020 at 21:00 hours for nine minutes has been attached along with this as issued by SLDC KPTCL for further needful.

General Manager
Technical, HESCOM, Hubballi.



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ನೋಂದಾಯಿತ ಕಛೇರಿ: ನಿಗಮ ಕಛೇರಿ, ನವನಗರ, ಪಿ.ಬಿ ರೋಡ್, ಹುಬ್ಬಳ್ಳಿ - 580025, ಕರ್ನಾಟಕ

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