

UTTARAKHAND POWER CORPORATION LTD

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No. 184 @ D(O)/UPCL

Dated: 23 .01.2008

Subject: Instruction No.7: Regarding Patrolling & Preventive maintenance of lines.

General Manager (D),
Uttarakhand Power Corporation Ltd.,
Garhwal/Kumaun Zone,
Pauri/Haldwani.

It is observed that regular preventive maintenance is must for ensuring uninterrupted power supply to the consumers. Frequent power failure and damage of equipment mostly occur due to lack of timely and proper maintenance of electric lines for which strict monitoring is required for ensuring the work of preventive maintenance.

Before carrying out the preventive maintenance of lines, patrolling of lines is must. For this it is instructed that patrolling of lines will be carried out as under by J.E./S.D.O. in respect of his Section/Sub-Division.

Sl. No.	Voltage Rating of line	By J.E.	By S.D.O.
1.	33 KV	-	Twice in a year (pre & post monsoon period)
2.	11 KV	Twice in a year (pre & post monsoon period)	Once in a year (Only 11 KV Town feeders)

During the patrolling of any line by J.E./S.D.O., the following points are to be checked carefully: -

A. General:

- Adequate clearance to conductors and poles are available from trees, shrubs, bushes etc.
- Vertical and horizontal clearance from the neighbouring buildings, structures under construction etc. are adequate.
- Any new road, channels, earth embankment are constructed near or below the line reducing clearance.

B. Poles:

- Whether the pole is leaning and if so whether stay is required to make it plumb.
- Whether the metal is corroded at ground level.
- Earth around the pole is sunk or eroded.
- Any crack have been developed in PCC Poles.
- The pole is intact and free from mechanical injury due to vehicles dashing against it.

C. Cross Arms

- Any bird nest, or creeper observed on cross arms.
- The cross arm is tilted or displaced.
- The cross area is rusted.

D. Binding/Clamps/Jumpers

- The bindings/jumpers are cut, loose, charred or burnt.
- Distance of jumpers from metallic part is sufficient.
- Visible indication for heating of the PG clamps are observed.

E. Conductors & Ground wire

- Visible dangers like cut standards, burnt marks and corrosion etc observed.
- The conductors are loose, sag not proper. In case of L.T. line condition of spacers to be checked.
- Kites or green creepers are observed on the conductors
- The conductors/ground wire has sufficient clearance over roads, rivers, channels, railways and telecommunication circuits, haystacks etc.

F. Insulators

- Broken Pin/Disc Insulator.

G. Guys

- Corrosion of guyrod and stay wire observed.
- The guy wire is tight.
- The guy insulators provided are intact.
- Any green creepers on the stay wire.
- Guy pits have been washed away/sunk.

A patrolling register is to be maintained at 33/11 KV Sub-station containing the following columns.

Date	Details of faults observed along with the location	Signature of person responsible for the patrolling of line	Remedial action taken along with date	Signature of next higher authority.
1	2	3	4	5

Executive Engineer concerned will check the above register in due course of time and ensure that defects/faults observed by J.E./SDO during his patrolling are attended well in time. DGM/GM (D) concerned will ensure during the inspection of 33/11 KV Sub-stations that timely patrolling of the lines by J.E./S.D.O. are being carried out and preventive maintenance are made regularly.

(J.M. LAL)
DIRECTOR (OPERATION)

Copy forwarded to following for information and ensuring the compliance of above instructions strictly:

1. Dy. General Manager, Electy. Distbn. Circle, Dehradun (Urban) / Dehradun (Rural)/ Srinagar (G)/ Roorkee/Rudrapur/Haldwani/Ranikhet.
2. All Executive Engineers, EDD, UPCL with the instructions that the copy of this letter must be provided to each and every . J.E. / S.D.O of the concerned Division for strict compliance.

(J.M. LAL)
DIRECTOR (OPERATION)