



PUNJAB STATE TRANSMISSION CORPORATION LIMITED
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To

CAO/ Finance & Audit,
PSTCL, Patiala.

Memo No. 932 /P-1/275


Dated 09.08.19

**Subject:- PSERC Directives in the Tariff Order for FY- 2019-20 –
Ist Quarter (ending June 2019).**

Enclosed please find herewith status of PSERC Directive Sr. No. 4.3
i.e. Loading status of PSTCL Transmission lines & Substations for Ist Quarter i.e.
(ending June 2019) (Annexure-A).

This issues with the approval of Director/Technical.

DA : As above


Dy. CE/Planning & Communication,
PSTCL, Patiala.

CC:-

- 933/35
- 1) Chief Engineer /TS, PSTCL, Patiala - for information please.
 - 2) Sr. Xen. To Director/Tech. PSTCL, Patiala - for information please.
 - 3) Addl. SE/IT, PSTCL, Patiala along with the copy of Annexure-A
(Soft copy mailed to your official address) for uploading on web-site please.

| Sr. No. | P&M Circle | Name of Transmission-lines | % loading as compared with the standard design Parameters of Conductor i.e. 45°C ambient temp. and 75°C conductor temp. | Remarks | Remedial Action |
|---------|--|----------------------------|---|--|--|
| A) | Loading status of PSTCL Transmission lines | | | | |
| 1. | Bathinda | 132KV Baluana-Bathinda | 395A at 35°C ambient temperature (103.95%) | Temporary overloading because 132KV Malout-Mukatsar was out on permit | No remedial action required |
| 2. | Jalandhar | PGCIL Kartarpur-Kartarpur | 664A at 38°C ambient temperature (118.57%) | Temporary higher side loading since system was on single bus-bar. There was reverse power fed to 400kv Nakodar (instead of feeding being source) | i) Higher side loading shall be controlled after LILO of 2 nd ckt. PGCIL Jalandhar – 220KV s/s Kartarpur, the work of which is under execution. However, till the execution of this work, bus-splitting has been done to control higher side loading. ii) For further load growth, augmentation of existing conductor of both circuits i.e. 220 kV DC line from 400 kV Jalandhar to 220 kV Kartarpur with HTLS conductor has already been planned to give relief to line loading |
| | | 132KV Mahilpur-Banga | 397A at 42°C ambient temperature (104.19%) | Higher side loading is within permissible limits corresponding to ambient temperature | No remedial action required |
| | | 220 KV G1-Rajpura Ckt.-1 | 560A at 40°C ambient temperature (100%) | Temporary higher side loading due to lesser generation available at GGSSTP i.e. only 2 units were ON | No remedial action required |
| 3 | Ludhiana | 220 KV PGCIL-Lalton Ckt.-2 | 560 A at 30°C ambient temperature (100%) | | Replacement of conductor with HTLS conductor has already been planned to give relief to line loading. |
| | | 220 KV PGCIL-Lalton Ckt.-3 | 692 A at 31°C ambient temperature (109.7%) | Temporary higher side loading due to permit at Jagraon end. | No remedial action required |

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|----|--|--|--|---|--|
| | | 220 KV Lalton - Humbran | 660A at 30°C ambient temperature (117.85%) | Higher side loading is within permissible limits corresponding to ambient temperature | No remedial action required |
| | | 220 KV Doraha - PGCIL | 619A at 32°C ambient temperature (110.5%) | Higher side loading due to high load intake by Sahnewal ckt. I and Sahnewal ckt. II was off from other end | No remedial action required |
| 4 | Amritsar | 132 KV Sarna-Gurdaspur | 352A at 42°C ambient temperature (110%) | Temporary overloading is due to increased demand of the area | New grid 220KV Gurdaspur has been identified for 2020-23 for controlling the overloading of this section |
| | | 132 KV Verpal- Mall Mandi | 420A at 41°C ambient temperature (110.52%) | Higher side loading corresponding to ambient temperature is within permissible limits | Augmentation of 0.2 sq inch conductor with HTLS conductor has already been planned to give relief to line loading. |
| 5 | Patiala | 220KV Sunam-Bhalwan-Ckt.1 | 579A at 31°C ambient temperature (103%) | Slight higher side loading seems to be of temporary nature due to high load intake at 220K Mansa/Jhunir end. However, Higher side loading is within permissible limits corresponding to ambient temperature | No remedial action required |
| | | 220KV Sunam-Bhalwan-Ckt.2 | 579A at 31°C ambient temperature (103%) | | |
| B) | Loading status of PSTCL Substations | All the 220KV as well as 132KV Substations of PSTCL remain loaded below 100% | | | |
| | Note | <ol style="list-style-type: none"> 1) The standard current rating of Panther conductor at 45°C ambient temperature & 75°C conductor temperature is 381 A. 2) The standard current rating of Zebra conductor at 45°C ambient temperature & 75°C conductor temperature is 560 A. 3) The standard current rating of Moose conductor at 45°C ambient temperature & 75°C conductor temperature is 631 A. | | | |