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Memo No. 33 /P-1/275

Dated: 02-02-2021

To

CAO/F&A,
PSTCL, Patiala


Subject: PSERC Directives in the Tariff Order for FY-2020-21: Quarter ending December- 2020

Reference:- Your Office memo no: 58/FA/Comml.-23/Vol.10 Dated:- 07.01.2021

Enclosed please find herewith compliance status of PSERC directives Sr. Nos. 5.2(Unmanned Sub-stations), 5.3>Loading Status of PSTCL Transmission Lines and sub-stations) and 5.5(Reactive Compensation) as Annexure-A, B & C, respectively.

This issues with the approval of Director/Technical.

DA: As Above.


Sr.XEN/Planning-1,
PSTCL, Patiala.

CC:

34/36
02-02-2021

1. Chief Engineer/TS, PSTCL, Patiala.
2. Sr.XEN(Tech. to Director/Tech., PSTCL, Patiala
3. Addl. SE/IT, PSTCL, Patiala along with copy of Annexure A, B and C
- Soft copy mailed to your official email address. It is requested to upload the same to PSTCL website.

Sr. No. 5.2 (Unmanned Sub-stations)

"Work of automation of five sub-stations i.e. 220kV Mohali-1, 220kV Mohali-2, 220kV Lalru, 220kV Dera Bassi & 220kV Kharar with 220kV Mohali-1 being control centre has been completed and one post of SSA from each of four slave sub-stations (220kV Mohali-2, 220kV Lalru, 220kV Dera Bassi & 220kV Kharar) has been surrendered by P&M organization. Apart from this one post of SSE(AE) at 220kV Mohali-2 has been made "vacant" and the incumbent SSE has been transferred to CO&C S/D, Ropar.

In addition to it, operational control of 400kV Dhuri has been shifted to 400kV Rajpura. Consequently, three posts of AE's on shift duty (out of four), two posts of AAE's on shift duty (out of four) & two posts of SSA's on shift duty(out of four) have been surrendered by P&M Organization."

ANNEXURE-B

Sr. No. 5.3 (Loading status of PSTCL Transmission Lines & Sub-stations)3rd Quarter (ending December-2020)

Sr. No.	P&M Circle	Name of Transmission Line	% loading as compared with the standard design Parameters of conductors i.e. 45° C ambient temperature and 75°C conductor temperature	Remarks of P&M Organization	Proposal/Remedial Action by Planning
A) Loading status of PSTCL Transmission Lines					
1.	Patiala	----NIL----			
2.	Jalandhar	----NIL----			
3.	Ludhiana (CP-22)	220kV PGCIL - Doraha	562 A at 24°C Ambient temperature (100.17%)	As per telephonic discussion with concerned SSE, temporary higher loading is due to shutdown at Sahnewal end.	High loading is within permissible thermal limit corresponding to ambient temperature (i.e. 745.88 A at 24°C) No remedial action required
		220kV G 01 - Rajpura Ckt 01	615 A at 10°C Ambient temperature (109%)	Temporary	High loading is within permissible thermal limit corresponding to ambient temperature (i.e. 866.11 A at 10°C). Also, replacement of existing conductor of 220kV Gobindgarh-400kV Rajpura (DC within HTLS of suitable capacity already planned in MYT 2020-23.
		220kV G 01 - Rajpura Ckt 02	615 A at 10°C Ambient temperature (109%)	Temporary	-do-
4.	Bathinda	----NIL----			
5.	Amritsar	----NIL----			
B)	Loading status of Power Transformers of PSTCL Sub-stations	All 400/220kV, 220/132kV & 220/66kV as well as 132/66kV, 132/11kV & 66/11kV Power T/Fs of PSTCL Substations remained below 100% as per P&M data.			

5.5(Reactive Compensation)**System study for Capacitor requirement in NR for the year 2019-20**

1.0 In the 44th TCC & 47th NRPC meeting held on 10th and 11th December 2019 has discussed the decision taken in the 43th NRPC meeting in respect of " System study for Capacitor requirement in NR for the year 2019-20" and deliberated that

"NRPC agreed with the advice of TCC for carrying out the study simultaneously for all the states so as to reduce the elapsed time. Further, NRPC directed that extreme efforts shall be made so as to complete the study for capacitor requirement in NR for the year 2019-20 by 31st March 2020 itself."

2.0 Now as per the agenda point no. 7 of 179th OCC meeting circulated vide letter no. 106/01/2021 dt 13.01.2021 of NRPC, CPRI has submitted the report of the study which was circulated with all the SLDCs and STUs vide email dated 02.11.2020 for submission of comments before the OCC meeting.

In the 177th OCC meeting, representatives of Punjab, Rajasthan, Delhi and Haryana stated that the capacitors considered in the study were far less than already installed. In the meeting, it was decided that states shall first analyze the PSSE file considered by CPRI in their study and bring out the locations wherein capacitor are already installed in the network, but are not modeled. Considering the same, all states shall submit their comments on the findings of the report so that CPRI could be reached out along with some solid factual data.

The list of bus-wise available MVAR and the additionally required MVAR computed in the CPRI report was shared separately by NRPC Sectt. with SLDCs of Punjab, Haryana, Rajasthan, Delhi and Uttarakhand on 07.01.2021 with the request to provide MVAR values in those buses. Requisite feedbacks from the Punjab and Rajasthan have been forwarded to CPRI for necessary Updation in PSSE file.