CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Coram:

Dr. Pramod Deo, Chairperson Shri V.S.Verma, Member Shri M.Deena Dayalan, Member

DATE OF HEARING : 9.4.2013

Petition No. 221/MP/2012

Sub: Providing adequate load shedding through automatic under frequency and df/dt relays in the state systems of Northern region and keeping them functional in terms of Regulation 5.2 (n) of the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (first amendment), Regulations 2012 for ensuring security of the Northern regional grid as well as the interconnected Indian grid.

Petitioner : Northern Regional Load Despatch Centre, New Delhi

Respondent : Punjab State Transmission Corporation Ltd. & others

Petition No. 263/MP/2012

Sub: Maintaining and ensuring integrated, secured grid operation in Southern Region in terms of regulation 5.2 of the Central Electricity Regulatory Commission Indian Electricity Grid Code Regulations 2010 and compliance of regulation 5.2 (n) and 5.4.2 (e) of the IEGC by providing adequate load relief through AUFR and df/dt schemes during contingencies.

Petitioner : Southern Regional Load Dispatch Centre, Bangalore

Respondents : Transmission Corporation of Andhra Pradesh Ltd. & Others

.....

Parties present : Shri V.V Sharma, NRLDC

Shri Rajiv Porwal, NRLDC Shri Vikas Sharma, NRLDC Shri V. Suresh, SRLDC

Shri Raghav Chandha, Advocate, J&K,PDD

Shri Vikas Sharma, J & K Shri S.K. Sharma, DTL Shri Paritosh Joshi, DTL Shri B.S. Bairwa, NRPC Shri Vijay Kumar, NRPC Shri Satish Kumar, PTCUL

Shri Darshan Singh, SLDC,Delhi Shri Kavindra Singh, UPPTCL Shri M.K Tomar, RRVPNL

Shri Satbir Singh, SRPC

Shri Anand K. Ganeshan, KPTCL

Shri S. Vallainayagam, Advocate for TANTRANSCO

Record of Proceedings

- 1. The representative of NRLDC submitted as under:
- (i) The details of compliance report for time schedule for procurement/ rectification of all the relays in the Northern Region have been received from the States of Delhi, Rajasthan, UP, Punjab on 15/3/13 Uttarakhand on 25/3/2013 and Haryana 5/4/2013.
- (ii) The compliance reports have been examined and rejoinders to replies have already been filed.
- (iii) No response has been received from the States of Himachal Pradesh and J&K and UT of Chandigarh.
- (iv) Lot of discrepancies have been observed in compliance report submitted by respondents. As per Regulation 5.4.2 (e) of Grid Code, UFR, df/dt relays should be installed on radial feeders. Feeders should be arranged in four groups for scheduled power cuts/load shedding, Loads for unscheduled load shedding. Loads to be shed through under frequency relays relays and loads to be shed under any System Protection Scheme. There should not be any over lapping between different groups of loads.
- (v) The Commission may direct the respondents, namely State of Himachal Pradesh, Jammu and Kashmir and UT Chandigarh to submit the information

.....

- regarding installed df/dt and Under Frequency Relays in their respective systems and to rectify the identified deficiencies in a time bound manner;
- (vi) The Commission may direct all the respondents to carry out field verification and validation of df/dt and Under Frequency Relays based scheme installed in their system, every six month to ensure their healthiness and functionality at all times in terms of Regulation 5.2 (n) of the Grid Code
- 2. The representative of NRPC requested the Commission to issue directions to the States of Himachal Pradesh, UT, J&K and Chandigarh, for submission of quantum of relief through UFR and df/dt. He further submitted that Inspection on quarterly basis is being done by NRPC.
- 3. Learned counsel for the J&K submitted that reply to the petition would be filed shortly.
- 4. Representative of SRLDC submitted that:
- (i) SR Constituents have initiated action in response to RoP dated 14.02.2013.
- (ii) In the Protection committee meeting of SRPC, all SR constituents agreed & confirmed the quantum finalized by SRPC as appropriate.
- (iii) Andhra Pradesh & Tamil Nadu confirmed for considering feeder wise average load for theior declaration. They have identified additional feeders and suitable relays are yet to be installed in these feeders. However AP & TN have to furnish the updated list of feeders with revised quantities. Action plan for bridging the gap pf balance quantity in a time bound manner.
- (iv) KPTCL identified additional feeders, but yet to confirm the declaration considering minimum/ average load of respective feeders as well as furnish the updated list with revised quantum on each feeder. KSEB monitors for maximum & average value of load available in the identified feeders. However the declaration is still based on maximum value and it results in 40%- 60% of availability of loads. Particularly in the case of Kerala, the difference between Maximum & Minimum load as well as minimum load duration is significantly high. Therefore, it may be appropriate to consider minimum load available for relief from such feeders.
- 5. Accordingly, SRLDC pray that the all SR Constituents may be directed

- (i) to furnish updated list of feeders with revised feeder-wise load details considering minimum/average load that may be normally available for relief through AUF and df/dt protection.
- (ii) to furnish time bound action plan for ensuring AUF and df/dt implementation to the quantum finalized in the Protection Coordination Committee meeting of SRPC.
- (iii) to make available data of such identified feeders to SRLDC for monitoring and reporting to the Commission.
- 6. After hearing the parties present, the Commission reserved order in the petitions.

By order of the Commission

-Sd-(T. Rout) Joint Chief (Law)