

Additional Agenda for 135th OCC

1. OPERATION OF HYDRO POWER PROJECTS IN PEAKING MODE

CEA vide letter dated 18.07.17 informed that POSOCO has carried out operational analysis of various hydro stations in the country and observed that despite 40.6 GW of peaking hydro capacity only about 33 GW peak generation is carried out on all India basis. According to POSOCO, this is on account of a number of hydro stations, particularly in state sector, which are not being operated in peaking mode. In order to examine the above observation, a Sub-committee has been constituted by the MoP under Chairperson, CEA with heads of POSOCO, NHPC, SJVN & THDC as members and Director (H), MoP as the Member Convenor. The Sub-Committee has held three meetings with the concerned hydro generating stations and concluded that there is scope for about 2000 MW additional power generation from hydro stations during peak hours.

It has been desired by the Chairperson that the matter of utilization of hydro stations in peaking mode be made a regular agenda item for discussion at the monthly OCC meetings while discussing operational planning for the month ahead and analyzing the operation in the previous month.

Members may discuss.

2. OPERATION OF HYDRO POWER PROJECTS IN PEAKING MODE

SER vide letter dated 19.07.17 intimated that Railway draws traction power from Rajkarwan, Kendposi and Gaoilkera Traction substations from JUSNL and feeds major portion of Chakradharpur division. Rajkarwan sub-station is getting power at 132kV from Chandil Grid sub-station of JUSNL and thereafter feeds to the other traction substations viz. Kendposi, Chakradharpur and Goilkera through tie lines. Failure of feed from Chandil GSS to Rajkarwan, results in failure of power supply to all the four TSSs which are adjacent to each other thereby causing a total suspension of Railway operation over Chakradharpur division. Chakradharpur being the major loading division of Indian Railways contributes substantially to the national economy which gets severely affected during such failures.

During the period April,2017 till date, there have been 27 incidences of such power interruption over four substations (details in Annexure-I) wherein in one case the interruption extended upto 2 hrs 22 minutes. These failures have resulted in total disruption of train movement over Chakradharpur division and its subsequent cascading effects over adjacent divisions and Railways.

There exists a tie line between Joda GSS of OPTCL and Kendposi TSS of JUSNL which can be utilized for providing power to the substations over Chakradharpur division during such interruptions. Only in one incidence of interruption on 05.04.2017, power supply was extended from Joda GSS to Kendposi GSS at 17:35 hrs, after an interval of 1 hr, 42 minutes. However in that case power supply to Goilkera, Chakradharpur and Rajkarwan was restored only at 18:15 Hrs i.e. after 2 hrs. 22 minutes.

Since the failure of power supply, even for one minute, cause serious repercussion in train movement, Railways requested for extending power supply to Kendposi during such failures for arranging power supply at least to the traction substations, without any delay as a standard operating procedure.

Members may discuss.

**Simultaneous Power supply failures at 4 TSSs of
Rajkarswan, Kendposi, Chakradharpur and Goilkera,**

Sl.No.	Date of failure	Interruption		Duration
		From	To	Minutes.
1	02.04.17	19.03	19.35	22
2*	05.04.17	15.53	18.15	142
3	05.04.17	20.22	20.37	15
4	08.04.17	12.20	12.34	14
5	16.04.17	15.16	15.50	34
6	22.04.17	20.09	20.40	31
7	23.04.17	12.18	12.35	17
8	23.04.17	14.08	14.27	19
9	30.04.17	13.25	13.41	16
10	30.04.17	13.50	14.16	26
11	09.05.17	20:40	21:03	23
12	10.05.17	18:20	18:35	15
13	13.05.17	13:39	13:48	09
14	15.05.17	14:20	14:30	10
15	15.05.17	15:08	15:22	14
16	15.05.17	18:31	18:37	06
17	16.05.17	10:25	10:39	14
18	21.05.17	16:35	16:45	10
19	23.05.17	18:11	18:50	39
20	26.05.17	15:42	16:50	68
21	28.05.17	20:42	20:53	11
22	12.06.17	19.10	19.35	25
23	13.06.17	18.10	19.31	81
24	17.06.17	17.20	17.36	16
25	12.07.17	19.22	19.32	10
26	13.07.17	11.56	12.13	17
27	13.07.17	13.29	13.37	8

* Note: Only in one incident of interruption on 5.4.2017, power was extended from Joda GSS to Kendposi GSS at 17.35 hrs after interval of 1 hr. 42 mts. However power to Goilkera, Chakradharpur and Rajkarswan was extended only at 18.15 hrs i.e. after 2 hrs 22 mts.