|  |  |
| --- | --- |
|  |   **पंजीकृत कार्यालय :शक्ति सदन, कोटला रोड़, न्यू दिल्ली-110002**(Regd. Office Shakti Sadan, Kotla Road, New Delhi-110002) **कार्यालय उपमहाप्रबंधक (एस.ओ.)** **Office of Dy. General Manager (SO)****एस एल डी सी बिल्डिंग, मिंटो रोड़, न्यू दिल्ली-110002** SLDC Building, Minto Road, New Delhi-110002Ph: 23221149 FAX No.23221012 |
| **No. F./DTL/207 /DGM(SO)/12-13/366** |  **Dated : 06.02.2013**  |

**Subject : Minutes of the Meeting held on 04.01.2013 regarding scheduling of power**

**from various Interstate and Intrastate Generating Stations at SLDC.**

Dear Sir, / महोदय

The copy of the Minutes of the Meeting held on 04.01.2013 at SLDC regarding scheduling of power from various Interstate and Intrastate Generating Stations is enclosed for ready reference and further necessary action please.

It is also available in SLDC website [*www.delhisldc.org*](http://www.delhisldc.org) at Meeting Portal.

Thanking you,

 भवदीय / Yours faithfully

Encl. As above

 **(उपमहाप्रबंधक (एस.ओ.)/**Dy. G. M. (SO)

List of addresses

1. Executive Director (Engg.), DERC, Viniyamak Bhawan, Shivalik, New Delhi-17
2. General Manager, (Commercial), DTL
3. General Manager, SLDC, Delhi
4. General Manager, Badarpur Thermal Power Station (BTPS), Badarpur, New Delhi -44
5. General Manager, Pragati Power Station, New Delhi
6. General Manager, Bawana CCGT, Sec. -5, DSIDC Ind. Area, Bawana, New Delhi -39
7. General Manager, RPH, New Delhi
8. General Manager, Gas Turbine, IPGCL, New Delhi
9. CWE (Utilities), MES, Delhi Cantt., New Delhi-110010
10. Addl. Vice President, System Operation, BRPL, Balaji Estate, Kalkaji, New Delhi
11. DGM (SO), System Operation, BYPL, Balaji Estate Kalkaji, New Delhi
12. Chief Engineer (Electrical-1), NDMC, Palika Kendra, New Delhi-110001
13. Director (Comml.), NDMC, Palika Kendra, New Delhi-1
14. Head (System Operation), TPDDL, Cennet Building, Pitampura, New Delhi
15. DGM(Comml.), APCPL, 1st Floor, Pawanhans Tower, C-14, Sec-1, Noida, UP-201301
16. Sh. Chandra Mohan, Sr. Consultant, BRPL, BSES Bhawan Nehru Place, New Delhi-19
17. Sh. Ajay Kumar, VP (PC&PMG), BRPL, BRPL Head Qtr, Nehru Place, New Delhi-19
18. Sr. General Manager (Power Management Group), TPDDL, Corporate Office, 3rd Floor, Sub-Station Building, Hudson Lines, Kingsway Camp, Delhi-110019
19. Sh. Sunil Kakkar, Addl. Vice President (PMG), BSES Yamuna Power Ltd., Shakti Kiran Building, Karkardooma, Delhi 110092
20. Sh. Sanjay Srivastava, AVP (PMG), BRPL, Bldg. No. 20, Nehru Place, New Delhi-19
21. General Manager (Comml.), APCL, Pawan Hans Tower, C-14, Sector-1, NOIDA, UP-201301
22. General Manager, Indira Gandhi Super Thermal Power Station, Jhajjar, Jhajjar Distt. Haryana-124141
23. General Manager (Commercial), National Thermal Power Corporation Ltd., NTPC NCR Headquarter, Sector-24, Noida, UP-201301
24. Manager (SO)-Shift, Delhi SLDC
25. Executive Engineer (SO), NDMC, Minto Road

Copy for favour of kind information to :

* 1. Secretary, CERC, Chanderlok Bldg. Janpath, New Delhi-110001
	2. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-110017
	3. Chairman and Managing Director, DTL
	4. Member Secretary, NRPC, **18A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-16**
	5. **Director (Operations), NTPC Ltd, Core-7, Scope Complex, Lodhi Road, New Delhi-03**
	6. Director (Comml.), NTPC **Ltd, Core-7, Scope Complex, Lodhi Road, New Delhi-03**
	7. Chairperson, New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi
	8. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019
	9. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, Delhi-92
	10. CEO, APCPL, Pawan Hans Tower, C-14, Sec-1, Noida-201301
	11. CEO, TPDDL, 33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-9
	12. Chief Engineer (Utilities), CWE, MES, Kotwali Road, Delhi Cantt New Delhi-110010
	13. Managing Director, IPGCL/PPCL,Himadri, Rajghat Power House, New Delhi-110002
	14. Addl. Secretary (Power), GNCTD
	15. Director (T), PPCL, Himadri, Rajghat Power House, New Delhi-110002
	16. Director (Operations), DTL
	17. Director (Fin), IPGCL/PPCL, Himadri, Rajghat Power House, New Delhi-110002
	18. G.M., NRLDC, **18A, Shaheed Jeet Singh Marg, Opp. Katwaria Sarai, New Delhi-16**
	19. **Director (O&M), Ministry of Power, Govt. of India, Shram Shakti Bhawan, New Delhi-01**

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**DELHI TRANSCO LTD.**

(Regd. Office : Shakti Sadan, Kotla Road, New Delhi 110002)

**[Office of Dy. General Manager (SO)]**

SLDC Building, Minto Road, New Delhi – 110 002

Phone No.23221149, Fax 23221012, 23221059

**Subject : Minutes of the Meeting held on 04.01.2013 regarding scheduling of**

**power from various Interstate and Intrastate Generating Stations**

As per the decision taken in the meeting held on 26.11.2012 in SLDC on Discom-wise scheduling of various sources, to discuss the scheduling issues of various generating stations, a meeting was held on 04.01.2013 at SLDC.

Director (Operations), DTL chaired the meeting. The list of the participants is enclosed as Annexure-A.

The following is the gist of discussions and decisions:-

1. SLDC presented the ongoing power scenario of the Capital. It was explained that power cut has been occurring during morning peak hours, after noon hours and late in the evening due to reduction in generation in various sources particularly Dadri (Thermal) to the tune of 400MW following coal shortages. Further, due to the outage of BTPS Unit -4 (210MW) on 31.12.2012 at 13.32 hrs, the position further worsened on 01.01.2013.HJowever, the unit synchronized at 17.50hrs. on 01.01.2013. It was also mentioned that Chanderpura Unit-7 & 8 were also not generating power since 23:30Hrs. on 02.02.2013. The Mejia Unit-7 in which 100MW power is available to BYPL has also been out for the period 16:15hrs. on 03.01.13. CLP Jhajjar was also not generating power since 22:14hr. on 28.12.12 thereby causing a reduction of 60MW power to Delhi. All these outages resulted in wide spread load shedding in Delhi. The details of load shedding occurred in Delhi during the period 01.01.13 to 03.01.13 are as under :

|  |
| --- |
| **LOAD SHEDDING IN MW** |
| TIME (HOUR) | 01.01.13 | 02.01.13 | 03.01.13 |
| 1:00 | 83 | 0 | 0 |
| 02:00 | 0 | 0 | 0 |
| 03:00 | 0 | 0 | 0 |
| 04:00 | 0 | 0 | 0 |
| 05:00 | 0 | 0 | 0 |
| 06:00 | 0 | 0 | 0 |
| 07:00 | 0 | 0 | 0 |
| 08:00 | 0 | 0 | 3 |
| 09:00 | 25 | 52 | 28 |
| 10:00 | 266 | 230 | 132 |
| 11:00 | 204 | 375 | 209 |
| 12:00 | 292 | 382 | 103 |
| 13:00 | 440 | 538 | 107 |
| 14:00 | 142 | 330 | 214 |
| 15:00 | 12 | 242 | 168 |
| 16:00 | 0 | 293 | 90 |
| 17:00 | 0 | 368 | 330 |
| 18:00 | 0 | 46 | 143 |
| 19:00 | 0 | 100 | 148 |
| 20:00 | 0 | 468 | 291 |
| 21:00 | 0 | 226 | 213 |
| 22:00 | 0 | 121 | 143 |
| 23:00 | 107 | 221 | 53 |
| 24:00 | 0 | 58 | 0 |
| **Load shedding in Mus.** | **1.581** | **4.133** | **2.42** |
| **No. of feeders got tripped from DTL Sub-stations as per advise of SLDC Control Overdrawal** |
| **66Kv** | 8 | 48 | 8 |
| **33Kv** | 14 | 38 | 4 |
| **11Kv** | 80 | 167 | 74 |

It was explained that Power Supply position during this Winter had been quite satisfactory upto 24.12.2012: but disruption of rail traffic due to thick foggy climatic conditions caused the reduction of coal availability at Dadri (Th.) station resulting into reduction in Generation to the tune of about 400MW barring few peak hours in morning and evening peak.

 2. Chair enquired whether there was any deficiency in forecasting the load while disposing off the surplus power caused the present power crisis. It was explained that 780MW surplus was anticipated during peak hours but due to outage of various machines apart from less availability from stations like Dadri(TH) due to shortage of coal caused the, reduction in availability resulting the present power crises. The details of Availability planned vis-a-vs actual availability as on date are as under :-

|  |  |
| --- | --- |
| **Details of Demand - Availability planned vs Actual** |  |
|  |  |  | **As on 03.01.2013** |
|   | Planned | Actual |   |
| Source | Availability in MW | Availability in MW | Remarks  |
| Generation within Delhi | 1435 | 1412 |   |
| Central Sector Generating Station including Jhajjar | 3029 | 2426 | Lesser availability of 90MW (Rihand # 1 - 63MW, RAPP 'C' - 27MW) and Jhajjar - 230MW (Three units assumed with one unit surrender. Only BRPL & TPDDL Scheduled from the availability ). NHPC regulation on BRPL & BYPL caused the reduction of - 100MW . Lesser availability to the tune of 70MW at Anta, Auriya & Dadri due to gas shortage. After morning peak hours the generation of Dadri Stage-I & II also reduced by 200MW each.  |
| Additional tie up (Purchase) |   |   |   |
| DVC | 375 | 219 | Chanderpura # 7 & 8 not being scheduled to BRPL & BYPL due to corridor constraints.  |
| Mainthon (TPDDL) | 210 | 210 |   |
| CLP Jhajjar (TPDDL) | 53 | 0 |   |
| TOWMCL (BRPL) | 8 | 8 |   |
| Mejia #7 (BYPL) | 100 | 82 |   |
| Purchase from Exchange |   |   |   |
| BRPL |   | 20 |   |
| BYPL |   | 73 |   |
| Sale |   |   |   |
| HPSEB (Banking - BRPL) | -40 | -41 |   |
| J & K (Banking - BRPL)- Proposed  | -100 | -26 |   |
| Rajasthan (Banking - BRPL) | -30 | -28 |   |
| Gujrat  |   | -5 |   |
| U.P. (Banking - BYPL) |   | -31 |   |
| J & K (Banking - BYPL) | -50 | -77 |   |
| Meghalaya (Banking - BYPL) |   | -51 |   |
| Uttranchal - NDPL |   | -191 |   |
| MP - NDPL |   | -103 |   |
| MP - NDMC |   | -51 |   |
| IEX - NDMC |   | -51 |   |
|  TOTAL AVAILABILITY  | 4990 | 3795 |   |
| DEMAND | 4200 | 4200 |   |
| SHORTAGE | 790 | -405 |   |

3 The position is likely to improve when the weather condition improves as information gathered from generating stations like Dadri (Thermal). The trains carrying coal are getting last priority in clearing the traffic which is disrupted due to foggy weather condition and hence the coal shortage in Dadri. The position is likely to continue upto 15th of this month.

4 The ongoing regulations imposed on BRPL & BYPL by NHPC is causing a reduction of 100MW during peak hours. BRPL & BYPL representatives informed that the current payments are being made but due to non payment of arrears, NHPC authorities have not lifted the regulations. They have requested Power Department of GNCTD to impress upon Govt. of India to lift the regulations as both the utilities have drawn out action plans to liquidate the arrears in a period of 12 months and payments are accordingly being made apart from paying the current dues.

5 Due to non availability of power from DVC’s Chanderpura Unit 7 & 8 to BRPL and BYPL due to corridor constraints have also caused reduction in availability to the tune of about 100MW. BRPL and BYPL representatives informed that PGCIL has so far not granted long term open access to BRPL and BYPL although long term open access have been granted to TPDDL. Due to absence of long term open access they are applying on daily basis and access is given based on availability of corridor. For getting long term open access all out efforts are being made. It was reported that a meeting of ERLDC, NRLDC, PGCIL and DVC with BRPL & BYPL has also been scheduled on 05.01.2013 to sort out issues of providing long term open access to BRPL & BYPL. If the long term open access is materialized additional 80-90MW power would be available to Delhi. Executive Director (Engg.) DERC informed that as per the information available with her there is no corridor constraint for transfer of power from ER to NR. As such, the utilities should vigorously pursue with concerned authorities for getting the long term access for Chanderpura allocation. BRPL & BYPL representatives requested GNCTD’s help also to get the long term open access. Addl. Secretary (Power) GNCTD advised BRPL and BYPL to provide the bottleneck in getting long term open access for availing power from Chander Pura Unit -7 amd 8 and assured that if any, assistance is required from the State Govt., the same would be provided.

6 The power availability from Gas Stations have also been reduced considerably causing reduction of about 50% of the capacity i.e. to the tune of 150MW from CSGS. The availability of power from Bawana is also less i.e. against the capacity of 685MW only 215MW Power generating is going on due to gas restrictions.

7 BYPL representative was of the view that swapping of gas (from IPGCL’s Gas Station to PPCL’s Bawana CCGT) should be done so that optimum available capacity of gas can be used by exploiting maximum generation a Bawana CCGT due to high efficient machines.

8 IPGCL / PPCL representatives indicated that Govt. of India has already approved the swapping of gas allocation of gas stations of same owner provided all beneficiaries agree.

9 SLDC representative was apprehensive of swapping of entire gas allocation of IPGCL’s Gas Station to Bawana CCGT as at least one module (75MW) should be run at IPGCL’s Gas Station during winter season and two modules (150MW) during summer seasons to meet the essential loads like Delhi Metro, NDMC areas etc. Further, due to the present 220kV line configuration between Pragati and Maharani Bagh and Wazirabad to Pragati, the line loading will also cause problem during summer season. To tackle the problem maximum generation should be maintained at RPH, IPGCL’s GT Station and Pragati Power Station during Peak Summer season. As such, while deciding the swapping, the security of the Grid should be given utmost priority than other commercial issues. It was also mentioned that in recently announced Islanding Scheme of Delhi to safeguard Delhi system from possible black outs as occurred on 30/31.07.2012, 150MW minimum generation was assumed from IPGCL’s Gas Station to form the Delhi island. It should not be forgotten that only IPGCL’s GT Station has the facility of Black Start amongst the intrastate generating stations like PPCL GT, Bawana CCGT, TPDDL’s Rithala, RPH and BTPS.

10 Representatives of Distribution Licensees emphasized the need of strengthening the transmission system to meet the reduction in generation at load center. It was also mentioned by BYPL representative that in the last decade, no transmission system enhancement occurred in their area beside the fact that generation capacity at IP (247.5MW) has been reduced to zero and generation output from GT has been reduced considerably due to low gas availability which has put stress on the existing transmission system and causing load shedding in their areas inspite of the fact that sufficient power is arrange at high cost.

11 BYPL representative also requested to allocate the coal block of IP and RPH to Jhajjar to reduce variable cost of Jhajjar which is the main reason for non scheduling of power from Jhajjar. This would ensure optimum capacity utilization due to high capacity new machines available at Jhajjar.

12 G.M. (Commercial), APCPL was of the view that at present, no swapping arrangement is permitted in coal block allocation. Even if it is done, as done in case of gas allocation, IPGCL and APCPL are of different companies under different ownership and chances of coal swapping allocation of IP and RPH coal to Jhajjar are very remote.

13 G.M. (Commercial), APCPL informed that item-5 of the agenda wherein it was mentioned that PPA has been terminated by TPDDL with Jhajjar was not correct. He explained that TPDDL has issued only a notice for termination of PPA which has been duly replied by APCPL. He made it very clear that as per the relevant regulations, till the reallocation is done, the fixed charges liability lies with the original beneficiaries.

14 BYPL representative was of the view that BYPL being the distribution company who is assigned the distribution responsibility of poor consumer mix licensed area, such costly power can not be afforded by them. As such, they have already surrendered their share from Jhajjar and not liable to pay fixed and variable charges. It was also mentioned that they have continuously been flagging this fact in various forum.

15 Executive Director (Engineering), DERC, enquired about the current rate at Energy Exchanges from where Distribution Licensees are sourcing power to meet shortages. It was clarified that during peak hours, the rate is Rs.6-7 per unit. She also was of the view that if power is purchased from Energy Exchange at the rate of Rs. 6-7 per unit, the net cost is Rs.8-9 per unit considering the payment of fixed charges of Jhajjar which is at present Rs. 1.86 per unit which are also payable by the Distribution Licensees of Delhi as reallocation has not been done. She opinioned that the scheduling of Jhajjar’s power should be considered first before availing power from Energy Exchanges in the interest of the consumers of Delhi.

16 TPDDL representative and BRPL representatives intimated that they have started scheduling power from Jhajjar to meet ongoing crisis. SLDC representative explained that upto 28.12.2012, Jhajjar power was being scheduled as per the requirement of Delhi to avoid over drawal and load shedding in Delhi and was apportioned amongst the distribution companies including BYPL based on the ratio of allocation. From 28.12.2012, the scheduling was stopped as all distribution companies and even the APCPL objected the scheduling by SLDC when the Discoms are not requisitioning and huge payments are out standing against APCPL in respect of some of the utilities. From 31.12.2012, the scheduling has been restarted depending upon the requisition by Discoms.

However it was further explained that to meet the technical minimum level of generation to the maintained to ensure the operation of generating units at Jhahhar if NRLDC does power scheduling to Delhi from Jhahhar the same would be distributed to BRPL, BYPL AND TPDDL based on the allocation from the station.

BYPL was also advised to review of the decision of non scheduling of power from Jhajjar looking to the predominant power crises in their areas. BYPL representative intimated that they would provide power from other cheaper sources as shortage occurs only for few hours.

17 It was also brought out by SLDC that some of the Distribution Utilities schedule power from thermal sources during 0.0Hrs to 06.00hrs – NIL, 06.00hrs to 22.00hrs – full availability and 22.00hrs to 24.00hrs – NIL. It must be understood by all that to ensure full availability during the period 06.00hrs to 22.00hrs all machines should be available on bars and technical minimum limit generation should be maintained even though the requirement is nil during some portions of the day. The thermal generation units are not meant for frequent closing down and bring up to full capacity during the course of the day as per the requisition. It was also informed by SLDC that to ensure full availability during peak hours the sources are scheduled to the extent of minimum technical requirement to ensure running of machines during peak hours.

18 AGM (Commercial), NTPC mentioned about the para 10 of the MoM held on 26.11.2012 on Discomwise scheduling which is reproduced hereunder :

10) The representatives of Distribution Companies also requested the closing down of Stage-I unit of BTPS (95MW) due to high cost of generation during the winter months i.e. upto March 2013 as enough power is available with the Discoms to meet their demand. With regard to RPH, which is scheduled to be closed down by 31.03.2013, may be closed immediately due to lean season. The gas allocation of GT Station of IPGCL should swap to PPCL Bawana CCGT so that the efficiency of new machine can be utilized properly to reduce the tariff of the station. (SLDC regretted the stand of closing down the RPH Station before its scheduled time as it is a load centre generation and network security should be given the top most priority.) On the request of Discoms, the Chair agreed to convene a meeting of Discoms, Generators, SLDC and DTL to plan generating units outage upto 31.03.2013 to ensure optimum scheduling. However, it was decided to close two units of 95MW of BTPS immediately upto 15.12.2012 subject to review further. With regard to closing down of one module of GT of IPGCL, the same would be done depending upon the system requirement.

He mentioned that Delhi SLDC and Delhi Discoms may not schedule the power from any particular NTPC Station based on their requirement from time to time, but they have no mandate to decide about the shut-down of any NTPC unit. Further, Delhi Discoms’ obligation to pay fixed charges will continue to be there commensurate to allocation of power. He further was of view that closing down of the units have to be taken by Central / State Governments.

19 It was explained that the intension of recording is with regard to scheduling of power from the 95MW units of BTPS due to less demand considering the high cost of generation of the units.

20 BTPS representative mentioned that the power efficiency does not have any impact on tariff of the station. If the machines do not perform as per the standard fixed, the generating company would be at loss, as such SLDC or Discoms can not insist of closing down of particular unit but can only schedule power from the station as a whole as tariff is determined not unit wise but station wise. He further mentioned that as per the tariff regulations, the gross station heat rate considered for tariff of BTPS station for the period 01.04.2009 to 31.03.2014 is 2825 kCal / kWh and the auxiliary consumption of 9.5%. Any variation in these parameters is in the account of generating company.

21 Representative of Distribution Companies and SLDC was of the view that due to the outlived life of Stage-1 units, the performance of the units are very poor compared to Stage-2 units of 210MW. Though, in the present tariff, the parameters are fixed as mentioned above, in subsequent tariff period, the performance of the station during the previous tariff period would definitely have implications. As such, the station should run according to the requirement of Delhi.

22 SLDC representative further emphasized the need of maintaining core generation to ensure security of the Grid rather than considering commercial aspect. He mentioned the need of maintaining atleast 550MW generation during the winter to meet the peak demand requirement of areas fed from BTPS as detailed hereunder :-

|  |  |
| --- | --- |
| Details of Stations to be fed from BTPS | Load in MW |
| Mehrauli + Vasant Kunj | 250MW |
| Okhla  | 250MW |
| Gazipur | 120MW |
| Total  | 620MW |
| Generation  | 550MW |
| Balance to be met from 220kV Ballababgarh – BTPS line  | 70MW |

The balance of demand would be met from 220kV BTPS – Ballabhgarh Ckts. It is also mentioned that the generation of BTPS is scheduled most of the time at 80% of the available capacity due to the high cost of the generation.

During summer season, even with full generation at BTPS, the intrastate transmission constraints occur. The detailed of peak load from the above station are as under :-

|  |  |
| --- | --- |
| Details of Stations to be fed from BTPS during summer  | Load in MW |
| Mehrauli + Vasant Kunj | 456 |
| Okhla  | 362 |
| Gazipur | 135 |
| Total  | 953 |
| Generation  | 630 |
| Balance to be met from 220kV Ballababgarh – BTPS line  | 323 |

23 BRPL representatives informed that if any transmission constraints occur due to less generation at BTPS, the BRPL area namely Mehrauli, Vasant Kunj, Okhlam Malviya Nagar etc. get effected. As such before taking ay decision of closing down of BTPS units, the continuity of supply to areas fed from BTPS should be ensured.

24 It was also intimated by the representatives of Distribution Companies that the generation of BTPS is unpredictable due to one reason or other. For example, last year due to closure of Agra Canal during the period 06.05.2012 to 16.06.2012 the generation from the station was quite low when it was needed in Delhi. It was also pointed out that during the time of peak demand during year 2012, the generation from BTPS was quite low as evident from the following table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S. No. | Month | Date & Time of Occurrence of Peak | Peak Demand met in MW | Generation from BTPS (Ex-Bus) in MW against the capacity of 650 MW | Remarks |
| 1 | January 2012 | 20.01.12 at 10.01 hrs. | 3934 | 606 |  |
| 2 | February 2012 | 07.02.12 at 10.04hrs. | 3608 | 581 |  |
| 3 | March 2012 | 30.03.12 at 19.34hrs. | 3316 | 577 |  |
| 4 | April 2012 | 10.04.12 at 15.46hrs. | 3779 | 491 |  |
| 5 | May 2012 | 30.05.12 at 15.23hrs. | 5155 | 480 | Low generation due to water shortage  |
| 6 | June 2012 | 26.06.12 at 15.56hrs. | 5389 | 356 |
| 7 | July 2012 | 05.07.12 at 15.10hrs. | 5642 | 587 |  |
| 8 | August 2012 | 03.08.12 at 15.20hrs. | 4652 | 550 |  |
| 9 | September 2012 | 13.09.12 at 15.02hrs. | 4621 | 511 |  |
| 10 | October 2012 | 04.10.12 at 18.52hrs. | 3995 | 578 |  |
| 11 | November 2012 | 23.11.12 at 18.25hrs. | 3234 | 496 |  |
| 12 | December 2012 | 31.12.12 at 10.59hrs. | 3643 | 609 |  |

25 The representative of BTPS intimated that last year during summer season due to closure of Agar Canal without prior intimation caused less availability of Water. It was also informed that the kind of de silting operation carried out last year was done after the span of 25 years. It was also informed that for water supply to Mathura, the Irrigation Department of U.P. would carry out de silting operation twice in a year, one before Monson and one after monsoon. The cleaning operation of Agra Canal was also carried out during the period April – May 2011, 07.10.2011 to 25.10.2011 & 06.05.2012 to 16.06.2012. During the cleaning operation, the BTPS generation can not be maintained more than 300MW due to regulation of water supply from other sources.

26 The representative of Distribution Companies requested GNCTD to take up with Irrigation Department of U.P. to avoid reduction of water supply to BTPS during crucial summer months to ensure maximum generation from the station to meet the power demand of Delhi.

27 Executive Director (Engineering) DERC, mentioned that no strengthening scheme in the areas fed from BTPS has been put up before the commission by DTL for approval.

28 SLDC representative informed that the enhancement of Grid security at BTPS is already being considered by NRPC. The relevant extracts of the decision of the last NRPC meeting held 30.11.2011 are given hereunder:

**TCC Deliberations.**

1. **Secure Operation of BTPS generating station and network around 220 kV Samaypur-Ballabhgarh:**

B.1.11.1 Member Secretary, NRPC stated that for enhanced connectivity and easing of the constraints around BTPS, it was decided in the 26th NRPC meeting held on 13th July, 2012, that a study would be conducted by CTU for which HVPNL and DTL would furnish the requisite data. Chief Engineer (Planning) of HVPNL and DTL were to act as nodal officers in their respective organizations. He requested CTU, DTL and HVPNL to update the status.

B.1.11.2 Representative of CTU intimated that study had been carried out and it is noted that Badarpur- Ballabhgarh section was getting overloaded in both directions i.e. from Ballabhgarh to Badarpur in summer and in reverse direction during winter. He added that the possible solution was in giving additional feed to South Delhi loads from Jettikalan substation through cable. Further, he intimated that this issue would be an agenda for the forthcoming meeting of Standing Committee on transmission planning

**NRPC Deliberations.**

B.1.11.5 Members took note of the deliberations in TCC. Representative of BBMB intimated that 400/220 kV ICT at Bhiwani was expected to be back in service by 1st week of December, 2012.

Since the matter is being taken at CEA level, it was felt that let the decision of CEA be known.

29 SLDC representative informed that during lean season i.e. February and March, no transmission constraints would occur even if 3 units of 95 MW Capacity at BTPS are taken under reserve shut down.

30 After discussions it was decided to run all machines of BTPS under full capacity till the demand of Delhi reduces. In case, demand reduces these units (1, 2 & 3 of BTPS) should be closed down under reserve shut-down. However, it was felt necessary to have full capacity on bars during summer months. In case of requirement after closing down of units under reserve shut down the station should be given adequate time to revive the unit as per the provisions of IEGC due to low demand.

 **Power Scenario of Summer 2013**

31 As per the inputs provided by various Distribution companies and maintenance schedules of generating station finalized by NRPC for 2013-14, the power demand – availability position of Delhi as a whole and various Distribution companies during the period April 2013 to September 2013 (Summer 2013) has been presented by SLDC as under :

DELHI AS A WHOLE All figures in MW

|  |  |  |
| --- | --- | --- |
| **MONTH** | **1st Fortnight** | **2nd fortnight** |
| **APRIL 2013** | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 |
| DEMAND | 3350 | 3100 | 3900 | 4200 | 3800 | 3200 | 3100 | 4000 | 4400 | 4200 |
| AVAILABILITY | 4908 | 4908 | 4908 | 5035 | 5194 | 4858 | 4858 | 4858 | 4985 | 5144 |
| SURPLUS (+) / SHORTAGE (-) | **1558** | **1808** | **1008** | **835** | **1394** | **1658** | **1758** | **858** | **585** | **944** |
| **MAY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 4200 | 3650 | 4500 | 5000 | 4600 | 4750 | 4450 | 5000 | 5500 | 5200 |
| AVAILABILITY | 5033 | 5033 | 5033 | 5192 | 5287 | 5033 | 5033 | 5033 | 5192 | 5287 |
| SURPLUS (+) / SHORTAGE (-) | **833** | **1383** | **533** | **192** | **687** | **283** | **583** | **33** | **-308** | **87** |
| **JUNE 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 5000 | 4500 | 5000 | 5700 | 5200 | 5200 | 4750 | 5400 | 5900 | 5400 |
| AVAILABILITY | 5120 | 5120 | 5120 | 5374 | 5406 | 5120 | 5120 | 5120 | 5374 | 5406 |
| SURPLUS (+) / SHORTAGE (-) | **120** | **620** | **120** | **-326** | **206** | **-80** | **370** | **-280** | **-526** | **6** |
| **JULY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 5200 | 4800 | 5600 | 6000 | 5500 | 5200 | 4800 | 5600 | 5750 | 5500 |
| AVAILABILITY | 5311 | 5311 | 5311 | 5565 | 5597 | 5311 | 5311 | 5311 | 5565 | 5597 |
| SURPLUS (+) / SHORTAGE (-) | **111** | **511** | **-289** | **-435** | **97** | **111** | **511** | **-289** | **-185** | **97** |
| **AUG 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 5000 | 4600 | 5600 | 5750 | 5500 | 4500 | 3900 | 4800 | 5200 | 4900 |
| AVAILABILITY | 5016 | 5180 | 5016 | 5270 | 5302 | 5053 | 5053 | 5053 | 5308 | 5339 |
| SURPLUS (+) / SHORTAGE (-) | **16** | **580** | **-584** | **-480** | **-198** | **553** | **1153** | **253** | **108** | **439** |
| **SEP 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 4600 | 4200 | 4600 | 5000 | 4900 | 4200 | 3800 | 4200 | 4500 | 4300 |
| AVAILABILITY | 5054 | 5054 | 5054 | 5213 | 5308 | 5054 | 5054 | 5054 | 5213 | 5308 |
| SURPLUS (+) / SHORTAGE (-) | **454** | **854** | **454** | **213** | **408** | **854** | **1254** | **854** | **713** | **1008** |

BRPL All figures in MW

|  |  |  |
| --- | --- | --- |
| **MONTH** | **1st Fortnight** | **2nd fortnight** |
| **APRIL 2013** | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 |
| DEMAND | 1368 | 1269 | 1578 | 1693 | 1554 | 1294 | 1260 | 1621 | 1767 | 1706 |
| AVAILABILITY | 1828 | 1828 | 1828 | 1884 | 1953 | 1807 | 1807 | 1807 | 1862 | 1931 |
| SURPLUS (+) / SHORTAGE (-) | **460** | **559** | **250** | **190** | **399** | **512** | **546** | **185** | **95** | **225** |
| **MAY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1730 | 1500 | 1839 | 2024 | 1880 | 1960 | 1839 | 2056 | 2233 | 2142 |
| AVAILABILITY | 1862 | 1862 | 1862 | 1931 | 1973 | 1862 | 1862 | 1862 | 1931 | 1973 |
| SURPLUS (+) / SHORTAGE (-) | **132** | **362** | **23** | **-93** | **92** | **-98** | **23** | **-194** | **-302** | **-169** |
| **JUNE 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 2079 | 1870 | 2057 | 2321 | 2142 | 2166 | 1979 | 2218 | 2406 | 2229 |
| AVAILABILITY | 1921 | 1921 | 1921 | 2031 | 2045 | 1921 | 1921 | 1921 | 2031 | 2045 |
| SURPLUS (+) / SHORTAGE (-) | **-158** | **50** | **-136** | **-289** | **-97** | **-245** | **-59** | **-298** | **-374** | **-184** |
| **JULY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 2166 | 2001 | 2305 | 2447 | 2264 | 2166 | 2001 | 2305 | 2336 | 2264 |
| AVAILABILITY | 2112 | 2112 | 2112 | 2222 | 2236 | 2112 | 2112 | 2112 | 2222 | 2236 |
| SURPLUS (+) / SHORTAGE (-) | **-54** | **110** | **-194** | **-225** | **-28** | **-54** | **110** | **-194** | **-113** | **-28** |
| **AUG 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 2079 | 1916 | 2318 | 2340 | 2275 | 1861 | 1611 | 1970 | 2109 | 2018 |
| AVAILABILITY | 1856 | 1917 | 1856 | 1967 | 1981 | 1873 | 1873 | 1873 | 1984 | 1998 |
| SURPLUS (+) / SHORTAGE (-) | **-223** | **0** | **-462** | **-373** | **-294** | **12** | **262** | **-97** | **-126** | **-20** |
| **SEP 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1913 | 1748 | 1887 | 2022 | 2022 | 1739 | 1578 | 1726 | 1811 | 1765 |
| AVAILABILITY | 1866 | 1866 | 1866 | 1935 | 1976 | 1866 | 1866 | 1866 | 1935 | 1976 |
| SURPLUS (+) / SHORTAGE (-) | **-48** | **117** | **-21** | **-87** | **-46** | **127** | **287** | **140** | **124** | **211** |

BYPL All figures in MW

|  |  |  |
| --- | --- | --- |
| **MONTH** | **1st Fortnight** | **2nd fortnight** |
| **APRIL 2013** | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 |
| DEMAND | 855 | 793 | 986 | 1058 | 971 | 809 | 788 | 1013 | 1105 | 1066 |
| AVAILABILITY | 1235 | 1235 | 1219 | 1253 | 1313 | 1221 | 1221 | 1205 | 1240 | 1299 |
| SURPLUS (+) / SHORTAGE (-) | **380** | **442** | **233** | **195** | **342** | **412** | **433** | **192** | **135** | **233** |
| **MAY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1081 | 938 | 1150 | 1265 | 1175 | 1225 | 1150 | 1285 | 1396 | 1339 |
| AVAILABILITY | 1304 | 1304 | 1288 | 1331 | 1373 | 1304 | 1304 | 1288 | 1331 | 1373 |
| SURPLUS (+) / SHORTAGE (-) | **222** | **366** | **138** | **66** | **198** | **79** | **154** | **2** | **-65** | **34** |
| **JUNE 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1299 | 1169 | 1286 | 1451 | 1339 | 1354 | 1237 | 1387 | 1504 | 1393 |
| AVAILABILITY | 1318 | 1318 | 1301 | 1371 | 1396 | 1318 | 1318 | 1301 | 1371 | 1396 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **149** | **16** | **-80** | **57** | **-36** | **81** | **-85** | **-133** | **3** |
| **JULY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1354 | 1251 | 1441 | 1530 | 1415 | 1354 | 1251 | 1441 | 1460 | 1415 |
| AVAILABILITY | **1318** | **1318** | **1301** | **1371** | **1396** | **1318** | **1318** | **1301** | **1371** | **1396** |
| SURPLUS (+) / SHORTAGE (-) | **-36** | **67** | **-140** | **-159** | **-19** | **-36** | **67** | **-140** | **-89** | **-19** |
| **AUG 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1299 | 1198 | 1449 | 1463 | 1422 | 1163 | 1007 | 1231 | 1318 | 1261 |
| AVAILABILITY | 1308 | 1349 | 1293 | 1362 | 1386 | 1319 | 1319 | 1304 | 1373 | 1397 |
| SURPLUS (+) / SHORTAGE (-) | **8** | **151** | **-156** | **-101** | **-36** | **156** | **312** | **72** | **55** | **136** |
| **SEP 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1196 | 1093 | 1179 | 1264 | 1264 | 1087 | 987 | 1079 | 1132 | 1103 |
| AVAILABILITY | 1322 | 1322 | 1307 | 1350 | 1391 | 1322 | 1322 | 1307 | 1350 | 1391 |
| SURPLUS (+) / SHORTAGE (-) | **126** | **229** | **127** | **86** | **127** | **235** | **335** | **228** | **218** | **288** |

TPDDL All figures in MW

|  |  |  |
| --- | --- | --- |
| **MONTH** | **1st Fortnight** | **2nd fortnight** |
| **APRIL 2013** | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 |
| DEMAND | 916 | 850 | 1056 | 1134 | 1040 | 867 | 844 | 1085 | 1183 | 1142 |
| AVAILABILITY | 1511 | 1511 | 1511 | 1548 | 1595 | 1497 | 1497 | 1497 | 1534 | 1581 |
| SURPLUS (+) / SHORTAGE (-) | **595** | **662** | **455** | **415** | **555** | **630** | **653** | **412** | **351** | **438** |
| **MAY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1158 | 1004 | 1231 | 1355 | 1259 | 1313 | 1231 | 1377 | 1495 | 1434 |
| AVAILABILITY | 1534 | 1534 | 1534 | 1581 | 1608 | 1534 | 1534 | 1534 | 1581 | 1608 |
| SURPLUS (+) / SHORTAGE (-) | **376** | **530** | **303** | **225** | **349** | **222** | **303** | **158** | **85** | **174** |
| **JUNE 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1392 | 1252 | 1377 | 1554 | 1434 | 1450 | 1325 | 1485 | 1611 | 1493 |
| AVAILABILITY | 1548 | 1548 | 1548 | 1623 | 1632 | 1548 | 1548 | 1548 | 1623 | 1632 |
| SURPLUS (+) / SHORTAGE (-) | **157** | **296** | **171** | **69** | **198** | **98** | **223** | **63** | **12** | **139** |
| **JULY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1450 | 1340 | 1544 | 1638 | 1516 | 1450 | 1340 | 1544 | 1564 | 1516 |
| AVAILABILITY | 1548 | 1548 | 1548 | 1623 | 1632 | 1548 | 1548 | 1548 | 1623 | 1632 |
| SURPLUS (+) / SHORTAGE (-) | **98** | **208** | **5** | **-16** | **116** | **98** | **208** | **5** | **59** | **116** |
| **AUG 2013** |
| DEMAND | 1392 | 1283 | 1552 | 1567 | 1523 | 1246 | 1079 | 1319 | 1412 | 1351 |
| AVAILABILITY | 1542 | 1582 | 1542 | 1617 | 1626 | 1554 | 1554 | 1554 | 1628 | 1637 |
| SURPLUS (+) /SHORTAGE (-) | **151** | **299** | **-10** | **50** | **103** | **308** | **475** | **235** | **215** | **286** |
| **SEP 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 1281 | 1171 | 1263 | 1354 | 1354 | 1164 | 1057 | 1156 | 1212 | 1182 |
| AVAILABILITY | 1557 | 1557 | 1557 | 1603 | 1631 | 1557 | 1557 | 1557 | 1603 | 1631 |
| SURPLUS (+) / SHORTAGE (-) | **276** | **386** | **293** | **249** | **277** | **392** | **500** | **401** | **391** | **449** |

NDMC All figures in MW

|  |  |  |
| --- | --- | --- |
| **MONTH** | **1st Fortnight** | **2nd fortnight** |
| **APRIL 2013** | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 |
| DEMAND | 180 | 160 | 250 | 280 | 200 | 200 | 180 | 250 | 310 | 250 |
| AVAILABILITY | 284 | 284 | 300 | 300 | 284 | 284 | 284 | 300 | 300 | 284 |
| SURPLUS (+) / SHORTAGE (-) | **104** | **124** | **50** | **20** | **84** | **84** | **104** | **50** | **-10** | **34** |
| **MAY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 200 | 180 | 250 | 320 | 250 | 220 | 200 | 250 | 340 | 250 |
| AVAILABILITY | 284 | 284 | 300 | 300 | 284 | 284 | 284 | 300 | 300 | 284 |
| SURPLUS (+) / SHORTAGE (-) | **84** | **104** | **50** | **-20** | **34** | **64** | **84** | **50** | **-40** | **34** |
| **JUNE 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 200 | 180 | 250 | 340 | 250 | 200 | 180 | 280 | 345 | 250 |
| AVAILABILITY | 284 | 284 | 300 | 300 | 284 | 284 | 284 | 300 | 300 | 284 |
| SURPLUS (+) / SHORTAGE (-) | **84** | **104** | **50** | **-40** | **34** | **84** | **104** | **20** | **-45** | **34** |
| **JULY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 200 | 180 | 280 | 350 | 270 | 200 | 180 | 280 | 355 | 270 |
| AVAILABILITY | 284 | 284 | 300 | 300 | 284 | 284 | 284 | 300 | 300 | 284 |
| SURPLUS (+) / SHORTAGE (-) | **84** | **104** | **20** | **-50** | **14** | **84** | **104** | **20** | **-55** | **14** |
| **AUG 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 200 | 175 | 250 | 345 | 250 | 200 | 175 | 250 | 325 | 240 |
| AVAILABILITY | 260 | 284 | 275 | 275 | 260 | 259 | 259 | 274 | 274 | 259 |
| SURPLUS (+) / SHORTAGE (-) | **60** | **109** | **25** | **-70** | **10** | **59** | **84** | **24** | **-51** | **19** |
| **SEP 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 180 | 160 | 240 | 325 | 230 | 180 | 150 | 210 | 310 | 220 |
| AVAILABILITY | 260 | 260 | 276 | 276 | 260 | 260 | 260 | 276 | 276 | 260 |
| SURPLUS (+) / SHORTAGE (-) | **80** | **100** | **36** | **-49** | **30** | **80** | **110** | **66** | **-34** | **40** |

MES All figures in MW

|  |  |  |
| --- | --- | --- |
| **MONTH** | **1st Fortnight** | **2nd fortnight** |
| **APRIL 2013** | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 | 00-03 | 03-09 | 09-12 | 12-18 | 18-24 |
| DEMAND | 30 | 28 | 30 | 35 | 35 | 30 | 28 | 30 | 35 | 35 |
| AVAILABILITY | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **21** | **19** | **14** | **14** | **19** | **21** | **19** | **14** | **14** |
| **MAY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 30 | 28 | 30 | 35 | 35 | 32 | 30 | 32 | 35 | 35 |
| AVAILABILITY | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **21** | **19** | **14** | **14** | **17** | **19** | **17** | **14** | **14** |
| **JUNE 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 30 | 28 | 30 | 35 | 35 | 30 | 28 | 30 | 35 | 35 |
| AVAILABILITY | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **21** | **19** | **14** | **14** | **19** | **21** | **19** | **14** | **14** |
| **JULY 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 30 | 28 | 30 | 35 | 35 | 30 | 28 | 30 | 35 | 35 |
| AVAILABILITY | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **21** | **19** | **14** | **14** | **19** | **21** | **19** | **14** | **14** |
| **AUG 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 30 | 28 | 30 | 35 | 30 | 30 | 28 | 30 | 35 | 30 |
| AVAILABILITY | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **21** | **19** | **14** | **19** | **19** | **21** | **19** | **14** | **19** |
| **SEP 2013** |  |  |  |  |  |  |  |  |  |   |
| DEMAND | 30 | 28 | 30 | 35 | 30 | 30 | 28 | 30 | 35 | 30 |
| AVAILABILITY | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| SURPLUS (+) / SHORTAGE (-) | **19** | **21** | **19** | **14** | **19** | **19** | **21** | **19** | **14** | **19** |

32 General Manager (Comml.) APCPL was of the opinion that the availability of various sources is considered on full capacity. Practically the generation may not be available to the extent of full capacity. For example the gas station availability of Central station is only about 40% the capacity and Delhi is having about 200 MW share at periphery from Gas station namely Anta, Auriya and Dadri on full capacity. Occasionally coal problems also can not be ruled out. As such, the availability should be considered based on factual situation. He further clarified that unit no. 1 of Jhajjar is planned for maintenance during April’13.

32 It was clarified that the position corresponds to peak conditions which may not occur daily. Further to mitigate the shortage day ahead purchases are required to be carried out to avoid load shedding and over drawal thereby grid violations.

33 Distribution companys’ representatives opinioned that the state Govt may approach the Central Govt. well in advance to get the allocation from unallocated quota as Delhi used to get 200-300MW from the same during summer months. They cited the examples of previous years as under :

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Duration of Allocation | %age of allocation from unallocated quota to Delhi | Apparent quantum in MW at Delhi periphery |
| 1 | **Summer 2009**01.05.2009 – 28.06.200910.00hrs. to 18.00hrs.29.06.2009 – 28.07.200906.00hrs.to 12.00hrs. 12.00hrs. to 19.00hrs. 19.00hrs. to 23.00hrs.29.07.2009 – 15.10.200912.00hrs. to 19.00hrs. 19.00hrs. to 23.00hrs.  | 20420262022 | 30060300390300330 |
| 2 | **Summer 2010** 28.04.2010 – 13.05.201010.00hrs. to 23.00hrs. 15.05.2010 – 24.09.201010.00hrs. to 23.00hrs. 25.09.2010 – 10.11.201000.00hrs. to 23.00hrs.  | 988 | 135120120 |
| 3 | **Summer 2011**05.05.2011- 21.05.201110.00hrs. to 18.00hrs. 22.05.2011 – 30.09.201112.00hrs. to 23.00hrs. 01.10.2011 – 03.11.201110.00hrs. to 23.00hrs.  | 161616 | 240240240 |
| 4 | **Summer 2012** | Nil |  |

34 SLDC representative pointed out that in previous years Delhi was facing shortages during peak hours even after scheduling full power from all available sources. It was also pointed out that no power from unallocated quota was given to Delhi during last summer due to coming up of additional units at Jhajjar, Bawana etc. This year the possibility of allocation of unallocated quota is remote as Delhi has requested to surrender the share of Jhajjar power on round the clock basis through out the year. The allocation of unallocated quota (1791MW capacity) is done by the Central Govt. considering over all power scenario of the region/states. No commercial considerations are applied in allocating the power from this quota. General Manager (Comml.) APCL also expressed the same view.

35 It was informed that TPDDL has made adequate arrangement to meet the consumer demand. TPDDL further informed that to meet the exigency they have already floated the tender for banking of power from 1st May 2013 to 31st March 2014 for the purchase of 100MW power on round the clock basis and 200Mw on slot wise.

36 BRPL and BYPL has made arrangement through banking and assured to meet the shortage by means of additional arrangement of power through bilateral / banking arrangements. Further it was assured that if shortage any occurs it will be mitigated through purchases on day ahead basis from power exchanges.

37 BYPL & TPDDL representatives reaffirmed the surrendering of power from Jhajjar during summer also. BRPL representatives intimated that they have given the consent of availing power 1500MW from Jhajjar to the tune of 100MW which is their share from Unit #2.

38 The representatives of Distribution Licensees apprehended about the capacity of the transmission system to handle 6000MW power during summer months in the present scenario.

39 SLDC representative presented the total transmission capacity and available transmission capacity during the summer months. The details are as under :

Interstate Transfer Capability of Delhi

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sr. No. | Name of the Inter connection point | Transmission Element | Capacity in MVA / MW | Transfer Capacity in MW | Available Transfer Capacity in MW | Remarks |
| 1 | Mandola | 400/220kV 315MVA Tx-I | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-III | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-IV | 315MVA | 280 | 250 |   |
|   |   | **Total** | **1260** | **1120** | **1000** |   |
| 2 | Bawana | 400/220kV 315MVA Tx-I | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-III | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-IV | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-V | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-VI | 315MVA | 280 | 250 |   |
|   |   | **Total** | **1890MVA** | **1680** | **1500** |   |
| 3 | Bamnauli | 400/220kV 315MVA Tx-I | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-III | 315MVA | 280 | 250 |   |
|   |   | 400/220kV 315MVA Tx-IV | 315MVA | 280 | 250 |   |
|   |   | **Total** | **1260** | **1120** | **1000** |   |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sr. No. | Name of the Inter connection point | Transmission Element | Capacity in MVA / MW | Transfer Capacity in MW | Available Transfer Capacity in MW | Remarks |
| 4 | Maharani Bagh | 400/220kV 315MVA Tx-I | 315MVA | 280 | 225 | Subject to the revival of 220kV AIIMS - Ridge Valley D/C line (300MW capacity) |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 225 |
|   |   | 400/220kV 500MVA Tx-I | 500MVA | 400 | 225 |
|   |   | 400/220kV 500MVA Tx-II | 500MVA | 400 | 225 |
|   |   | **Total** | **1630** | **1360** | **900** |
| 5 | Mundka | 400/220kV 315MVA Tx-I | 315MVA | 280 | 100 |   |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 100 |   |
|   |   | **Total** | **630MVA** | **560** | **200** |   |
| 6 | Harsh Vihar | 400/220kV 315MVA Tx-I | 315MVA | 280 | 50 | Subject to the commissioning of 400kV Dadri - Harsh Vihar D/C line by PGCIL |
|   |   | 400/220kV 315MVA Tx-II | 315MVA | 280 | 50 |
|   |   | **Total** | **630MVA** | **560** | **100** |
| 7 | BTPS | 220kV Ballabhgarh Ckt-I | 132MW | 132 | 100 |   |
|   |   | 220kV Ballabhgarh Ckt-II | 132MW | 132 | 100 |   |
|   |   | 220kV Alwar Ckt. | 132MW | -132 | -100 |   |
|   |   | 220kV Noida Ckt. (Sec 20) | 132MW | -132 | -132 |   |
|   |   | **Total** | **528MW** | **0** | **-32** |   |
| 8 | Narela | 220kV Panipat Ckt-I | 100MW | 100 | 75 |   |
|   |   | 220kV Panipat Ckt-II | 100MW | 100 | 75 |   |
|   |   | 220kV Panipat Ckt-III | 100MW | 100 | 75 |   |
|   |   | **Total** | **300MW** | **300** | **225** |   |
| 9 | Rohtak Road | 66kV Gurgaon Ckt-I | 20MW | -20 | -10 |   |
|   | (BBMB) | 66kV Gurgaon Ckt-II | 20MW | -20 | -10 |   |
|   |   | 33kV Gurgaon Ckt. | 20MW | -20 | -10 |   |
|   |   | 33kV Bahadurgarh Ckt. | 20MW | -20 | -10 |   |
|   |   | Total | 80MW | -80 | -40 |   |
| 10 | Patparganj | 220kV Sahibabad ckt. | 132MW | 132 | 0 |   |
| 11 | Gazipur | 220k Noida Sec-62 Ckt. | 132MW | 132 | 0 |   |
|   |   | 220k Noida Sec-20 Ckt. | 132MW | 132 | 132 |   |
|   |   | Total Capacity |   | **6456** | **5085** |   |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Generation** |   |   |   |   |
| Generation Capacity injected at 220kV or below level |  |   |
| Station | Capacity in MW |   | Capacity in MW | Ex-bus Capacity |
| BTPS | 705 |   |   | 600 |
| RPH | 130 |   |   | 100 |
| GT | 270 |   |   | 150 |
| Pragati | 330 |   |   | 300 |
| Rithala | 75 |   |   | 50 |
| TOWMCL | 16 |   |   | 12 |
| Total Capacity  | 1526 |   |   | 1212 |
| Total Demand handling capacity |   | 7668 | 6297 |

40 The representatives of Distribution licensees showed deep concern with regard to the long outage of transmission system elements of DTL and requested earlier restoration of the elements.

41 Director (Ops) assured that all out efforts would be made to revive the elements under long outage and has given the targets of revival of long outage elements as under :

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | **Revival of Long outage of Elements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.** **No.**  | **Element’s Name**  | **Date and Time of outage**  | **Reason**  | **Target** |
| 1  | 220/66kV 100MVA Tx-II at Okhla  | 16.10.2012  | Y- phase bushing damaged. Tx. caught fire  | By 31.03.2013 |
| 2  | 220/33kV 50MVA Tx-II at Okhla (Replaced with 100 MVA Tx.) | 05.06.2010 at 19:36Hrs.  | Tx. earmarked for replacement had been installed at RPH. New Tx to be procured/reallocated.  | By 31.05.2013 |
| 3  | 220/33kV 100MVA Tx-III at IP  | 24.07.2012  | Tx completely damaged To be replaced.  | By 30.04.2013 |
| 4  | 220kV Naraina – Ridge Valley Ckt.  | 17.09.2012  | Cable damaged in the construction work of DMRC.  | By 28.02.2013 |
| 5  | 220/33kV 100MVA Tx-III at Electric Lane  | 20.09.2012  | Tx completely damaged To be replaced.  | By 30.04.2013 |
| 6 | 220kV AIIMS – Ridge Valley Ckt. – I & II  | -- | The cable declared faulty while charging before handed over by Executive Agency.  | All out efforts are exercised to get the cables energized before summer 2013 |

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41 It was also suggested that Director (Ops) may convene a meeting for discussing the transmission and Distribution constraints and remedial measures undertaken by the utilities to remove the constraints to meet the peak summer demand which was agreed to.

Meeting ended with thanks to chair.

**Annexure –‘A’**

**The list of the officers attended the meeting held on 04.01.2013 at Delhi SLDC to discuss scheduling of Power from various Interstate and Intrastate Generating Stations**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. N.** | **Name**  | **Designation** | **Utility** | **Mobile no.** | **Email** |
| **1** | Sh. A. K. Haldhar | Director(Ops), DTL – In chair | DTL | 9560992550 | asimhaldar@yahoo.co.in |
|  | Sh. R.N. Pandey | G.M. (Comml) | APCPL | 09004497011 | raj\_npandey@rediffmail.com  |
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| **3** | Sh. Sunil Kakkar | AVP (PMG) | BYPL | 9312147042 | sunil.kakar@relianceada.com |
| **4** | Sh. Haridas Maity | Sr. Manager | BYPL | 9350110156 | haridas.maity@relianceada.com |
| **5** | Sh. K. K. Verma  | Jr. Director  | DERC | 9868243560 | kaushal\_verma7007@yahoo.com  |
| **6** | Sh. K. Singh | DGM (E), RPH | IPGCL | 9717694862 | kamal\_rph@yahoo.co.in |
| **7** | Sh. Pradeep Gupta | DGM-Corporate | IPGCL | 9717694934 | pgupta.ppcl@yahoo.co.in  |
| **8** | Sh. Sanjay Kr. Sharma | Dy. Manager | IPGCL | 9717694965 | saggisanjay.sharma@gmail.com  |
| **9** | Sh. Vikas Kr. Singh | Dy. Manager  | PPCL | 9717694846 | vipalppcl@gmail.com |
| **10** | Sh. Shobhit Dhar | Manager | BRPL | 997139111 | shobhi.dhar@relianceada.com |
| **11** | Sh. Manish Kumar | Manager  | BRPL | 9311352648 | manish.k.singh@relianceada.com  |
| **12** | Sh. O.P. Kashyap | Manager (SO) | SLDC | 9999533654 | op.kashyap@dtl.gov.in  |
| **13** | Sh. Darshan Singh | Manager(SO) | SLDC | 9999533867 | darshansingh.dtl@gmail.com |
| **14** | Sh. Kamlesh Kr Verma | Asstt Manager | SLDC | 9540002279 | kam.ideal@gmail.com |
| **15** | Ms Neelam Bharti | Asstt.Mgr | SLDC | 9999533897 | neelambharti25@gmail.com |
| **16** | Ms Sweta Chauhan | Console Optr.-cont.  | SLDC | 9971116540 | shweta25.dimpy@gmail.com |
| **17** | Sh. Amit Kumar | Console Optr.-cont. | SLDC | 9555694976 | Amit3gzp@gmail.com |
| **18** | Sh. Sanjeev Kumar | AM(T), SO | SLDC | 9999533917 |  |
| **19** | Sh. Roop Kumar | G. M. (SLDC) | SLDC | 9999533629 | roopkumar2008@gmail.com |
| **20** | Sh. Deepak Sharma | AM(T), SO | SLDC | 9999535008 | deepaksharma.dtl@yahoo.co.in |
| **21** | Sh. A.K. Gehlot | Manager | SLDC | 9999533954 | Ak.gahlot@dtl.gov.in  |
| **22** | Sh. Ashis Kumar Dutta | A.G.M. | TPDDL | 9871798566 | ashis.dutta@tatapower-ddl.com |
| **23** | Sh. Santosh Kumar | AGM (I/C) RPH | IPGCL | 9717698177 |  |
| **24** | Sh. Y.P. Arora | G.M (T) GTPS | IPGCL / PPCL | 9717694855 | yparora.ipgpp@nic.in |
| **25** | Sh. S.M. Verma | GT(T) | IPGCL / PPCL | 9717694896 | vermasm@rediffmail.com |
| **26** | Sh. P. Devanand | AGM | TPDDL | 9871800506 | p.devanand@tatapower-ddl.com |
| **27** | Ms Anjuli Chandra | ED | DERC | 931221234 | direngg@derc.gov.in |
| **28** | Sh. R.K. Srivastava | AGM (T), EO to CMD | DTL | 9999533500 |  |
| **29** | Sh. S.K. Maheshwari  | AGM(EEMG) | BTPS / NTPC | 9650993817 | skmaheshwari19@gmail.com |
| **30** | Sh. A.K. Jha | Sr. Manager | PPCL, Bawana | 9717694790 |  |
| **31** | Sh. V. Venugopal | Dy. GM (SO) | SLDC, Delhi | 9871093402 | venugopal.v1960@yahoo.co.in  |