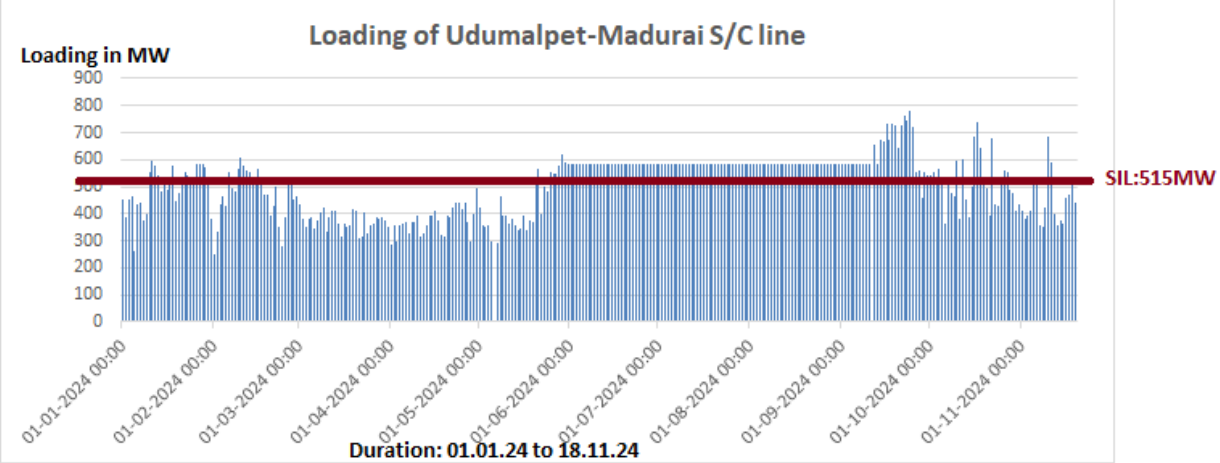
ADDITIONAL AGENDA FOR 221ST OCC MEETING

A SR II PGCIL communication dated 04.12.2024(Annexure-A)

1) Upgradation of 400kV Udumalpet – Madurai S/C

- **Background**: The 400kV Udumalpet – Madurai S/C is operating close to the SIL limits during peak wind demand season. The line, commissioned on 1st April 1993, spans 127.23 km and uses twin moose conductors. During the peak period, the line is under stress, and to manage overloading, SRLDC opens the 400kV Madurai-Tuticorin line on a power regulation basis (Circuit 1 for 55.4 hours in August 2024 and Circuit 2 for 220.47 hours from July to October 2024).
- **Proposal**: To address the overloading issue, it is proposed to upgrade the line to a double circuit configuration.

loading of the line- graph



May be discussed for approval.

2) Augmentation of Line Reactors at Sriperumbudur and Somanahalli SS

1 **400kV Sriperumbudur - S V Chathram Line Reactor**:

- The 400kV, 50MVAR reactor by ASEA, Sweden, commissioned in 1987, uses old-design bushings with no support from the manufacturer. The bushing shows increasing tan delta values, signalling deterioration.
- **Proposal**: Augment the reactor with a higher-capacity unit due to the outdated bushing and potential operational risks.

2 **400kV Somanahalli - Mylasandra Line Reactor**:

- This reactor, also rated 400kV and 50MVAR, was commissioned in 1986. The reactor's bushing and oil show tan delta violations, and suitable replacements are no longer available due to the old design.

- **Proposal**: Upgrade or replace the reactor due to its extended service life (over 38 years), tan delta violations, and high voltage at the Somanahalli substation.

3 DLL Installation

a) The DLL (Dynamic Link Library) sensors are expected in the 1st week of Jan 2025. Based on the receipt of the DLL sensors, ***request for non-auto mode of the 400kV Madurai-Tuticorin D/C will be applied on D-4 basis.***

4 Shutdown for TWFL Installation

Background: POWERGRID is installing Traveling Wave-based Fault Locators (TWFL) on 54 critical lines, enhancing operational availability by providing accurate fault distance measurements independent of line configurations.

Proposal: A 4-hour shutdown will be required for installation. Requests for shutdowns will be made on a D-4 basis based on the progress of equipment receipt and installation. POWERGRID seeks deemed availability for this system improvement work.

5 Items for Information

a) RLA study is being carried out through CPRI, Bangalore on the following ICTs & reactors which have completed its useful life

1) 315MVA ICT -1 @ Madurai SS.
2) 315MVA ICT -1 @ Trichy SS.
3) 50MVAR LR of 400kV Madurai-Trichy line @ Madurai.
4) 50MVAR LR of 400kV Salem- NNTPS 1 line @ Salem.
5) 50MVAR LR of 400kV Palakkad-Trissur -2 line @ Trissur.

Based on the outcome of RLA, same will be proposed for replacement

B NLDC communication dated 04.12.2024: Decision taken in the 23rd Meeting of the Monitoring committee to sanction fresh projects and projects deemed returned after the 22nd meeting of the Monitoring Committee. (Annexure-B)

a) During the **22nd meeting** of the Monitoring Committee, it was decided to **withhold the sanction of New Projects** including the projects under examination for a period of one year, except the critical projects i.e. SCADA for NER, Security Operation Center (SOC) of SLDCs, Islanding Schemes and REMC projects. Accordingly, NLDC informed the above decision to the project entities regarding fresh proposals and all the projects under examination were deemed returned.

b) In the **23rd Monitoring Committee** meeting held on 26th November 2024, considering the present fund position it was **decided to accept new projects including the projects deemed return.**

c) In view of the above decision, project entities are requested to submit fresh proposals along with the latest cost estimates & approvals in line with revised guidelines of PSDF for funding.

All entities may note this for further submission of thr proposals if any.

C KSEBL communication dated 05.12.2024: Pallivasal Extension Scheme (2x30MW) – Trial run (Annexure-C)

The Unit - 1 of **30MW** capacity at **Pallivasal Extension Scheme** GS first time test synchronized on **05.11.2024** and Unit -2 of **30 MW** capacity **test synchronized** on **24.11.2024**. Connectivity at 220 kV level by the LILO arrangement of 220kV Idukki Pallivasal feeder.

Also, Unit -1 at Pallivasal Extension Scheme has undergone **72hrs trial run** from 11.44hrs on 30.11.2024 to 12.13hrs on 03.12.2024 **at the rated capacity of 30MW**.

For information. KSEBL may inform the same to CEA.

D APSLDC communication dated 04.12.2024(Annexure-D)

Transmission constraints in AP network, status and expected date of commissioning for the proposed remedial measures were submitted by APTRANSCO

E Talcher NTPC communication dated 04.12.2024(Annexure-E)

Outage proposal of Unit 5(23.12.2024 to 31.01.2025 for 45 Days)(Refer main Agenda Item 4)

- ***As per LGBR approved Schedule is from 18.12.2024. However, to ensure OH completion within time 05.02.2025 (45 days) it is proposed to advance the start date by 5 Days.***

F NTPC SRHQ Communication dated 04.12.2024

Issue 1: Frequency Response Performance:

- ✓ As per reg 62(5) of the CERC Tariff Regulations, 2024

"*In addition to the AFC entitlement as computed above, the thermal generating station shall be allowed an incentive of up to 1.00% of AFC approved for a given year, which shall be billed monthly as per the following.*

Incentive = (1.00% x ß x CCy)/12

Where,

ß = Average Monthly Frequency Response Performance for that generating station, as certified by RPCs, which shall be computed by considering primary response as per the methodology prescribed by the NLDC with approval of the Commission, and ß shall range between 0 to 1.

Provided that the incentive shall be payable only if the Beta value is higher than 0.30.

CCy= Capacity Charges for the Year."

- ✓ NLDC Methodology for computation of Average Monthly Frequency Response Performance, Beta 'β' was approved by Hon'CERC dated: 23rd October, 2024.

Difficulties:

- ❖ ***In SR region, SRLDC & SRPC has not published statement.***

  May be discussed

Issue 2: Ramp Rate Performance:

- ✓ As per reg 30(3)(iii) of the CERC Tariff Regulations, 2024

" in the case of a thermal generating station:

a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate as specified under Regulation 45(9) of IEGC Regulations, 2023.

b) an additional rate of return on equity of 0.125% shall be allowed for every incremental ramp rate of 0.50% per minute achieved over and above the ramp rate specified by Central Electricity Authority, subject to the ceiling of additional rate of return on equity of 1.00%: "

Difficulties:

- ❖ ***In SR region, SRLDC & SRPC has not published statement in FY 24-25. Same is being published by other RPCs & RLDCs since Apr'24.***

  May be discussed

G SRLDC communication dated 04.12.2024(Annexure-G)

DC revisions by ISGS due to partial outage along with the reasons have been sent to all the states,

All the entities are requested to kindly go through the data and verify from their end.

H Outage Planning of Transmission Lines and Elements(Refer Main agenda Item 3)

3.3 Shutdown of 400KV Puducherry-NNTPS line

(i) This has reference to diversion of 400KV Puducherry-NNTPS line at loc.s 153 to 156, 148 to 150A & 141 to 146 being carried out by NHAI. Erection and stringing of new towers has been completed at loc. 153 to 156, 148 to 150A by availing 400KV Puducherry-NNTPS line shutdown from 22.06.24 to 25.06.24 & 02.08.24 to 05.08.24 using ERS.

(ii) Providing ERS from Loc 141 to 146 by NHAI is could not be taken up due to severe RoW issues. Now, NHAI have informed Villupuram-Puducherry-Poondiyankuppam section of NH45A inauguration by Honerable Prime Minister is the proposed first week of Dec-2024. Further, NHAI works have informed all works completed except line diversion works at loc.141 to 146 and requesting 400KV Puducherry-NNTPS line shutdown from 16.11.24 to 30.11.24 for erection of new 03Nos towers, dismantling of old 3Nos towers and stringing works. Letter from NHAI dt.09.07.24 is attached for reference.

(iii) Hence, the request given by NHAI may kindly be considered for the timelines inline with honourable Prime minister inauguration program and facilitate the shutdown please.

220th OCC Deliberations

- ✓ In the 220th OCC meeting held on 12.11.2024, SR2 POWERGRID proposed for the Shutdown of 400 kV NNTPS - Puducherry from 16.11.24 to 30.11.24 for NHAI diversion works in the stretch 141-146.
- ✓ Upon a query from SRPC regarding utilisation of ERS, SR-2 POWERGRID replied that ERS utilisation is not possible due to ROW issues. 3 gangs are proposed to be mobilised by NHAI to complete the works.
- ✓ SRPC mentioned that last moment intimation by NHAI is not as per then SOP issues by MoP. SR-2, POWEGRID replied that it was last moment confirmation received from NHAI regarding material availability and readiness for SD.
- ✓ SRLDC pointed out that PED concurrence is essential as there is no N-1 redundancy. During the S/D, only the 400 kV Pondy-SVChatram line will be available. A trip on this line could lead to a total blackout in the Puducherry area.
- ✓ PED's actions required:
  a. Ensure Bahour split bus operation.
  b. Patrol 230 kV lines to identify and rectify any defects.
  c. Confirm the healthiness of the system before proceeding
  d. Needs to do necessary load management.
- ✓ PED replied that the shutdown proposal by PGCIL (NNTPP-Puducherry) would be put upto their Higher Management for approval. Also informed that 230 kV Puducherry - Bahour SD for shifting of S/C line to D/C tower between location 46 to 48 for NHAI diversion works is planned from 19.11.2024 to 30.11.2024.
- ✓ MS SRPC opined that the shutdown may be approved only with PED concurrence and necessary arrangements for smooth execution. Also PED is advised to inform their Higher Management that since NHAI is not opting for the ERS option, there is a risk of grid disturbance or blackout in the Puducherry area.
- ✓ **Forum noted that POWERGRID/NHAI were advised to go for ERS during Shutdown of 400 kV NNTPS - Puducherry. However, in case of any grid**

disturbance/ blackout occurs during the SD period, it will be responsibility of NHAI if ERS is not utilized.

- ✓ Subsequently, PED vide mail dated 14.11.2024 replied that 230 kV Puducherry - Bahour for shifting of S/C line to D/C tower between location 46 to 48 for NHAI diversion works from 19.11.2024 to 30.11.2024 are already planned to be taken up. PED mentioned that SR-2, POWERGRID may plan for the Shutdown of 400 kV NNTPS - Puducherry after the restoration of 230 kV Puducherry - Bahour NHAI works.

220th OCC Conclusion

SR-2, POWERGRID may plan 400 kV NNTPS - Puducherry NHAI diversion works after the restoration of 230 kV Puducherry - Bahour line, subject to PED and SRLDC concurrence.

Update:

As per the latest communication from PED dated 05.12.2024, 230 kV Puducherry - Bahour line SD is extended upto 14.12.2024 for NHAI works.

Status may be updated

3.4 Status of commissioning of spare converter transformer and Talcher- Kolar Pole 2 Shutdown

- SR II, PGCIL request: vide communication dated 03.07.2024: From **11.08.2024 to 31.08.2024**.
- **217thOCC :**Approvedfrom **01.09.2024 @9:00 hrs to 21.09.2024 @21:00**hrs is approved.
- **218th OCC:** Availed the outage **06.09.2024**(planned until **26.09.2024.)**
  - Regarding the status of the spare converter transformer, POWERGRID had indicated that it is currently approximately 150 km from the Talcher HVDC Station and is expected to arrive by 25.09.2024.

SR I: **E-mail dated 26.09.2024**: Request for extension of **SD till 27.09.2024**: for completion of minor pending works

- **Subsequently it was noted that the bipole was taken into service on 27.09.24 at19:05 hours.**

PGCIL may update regarding the works carried out/experience.

SRLDC may apprise on the effect of SD on the Grid Operation

- ***Anticipated as per studies Vs Actual***

219th OCC

- ✓ Talcher-Kolar HVDC Pole 2 S/D can be planned along with NTPC Talcher Stage II Unit V and the pole may be revived before January 2025.
- ✓ Repair of the spare converter transformers may be completed and healthy spares to be made available at Talcher and Kolar HVDC substations.

220th OCC Deliberations

- SR-II, POWERGRID mentioned that the spare transformer transferred from Kolar HVDC station to Talcher HVDC station is undergoing internal inspection and checks with the OEM. It will be ready by end of November 2024.
- After deliberation at their corporate level it was decided that as there is no healthy spare at Talcher HVDC, this transformer can be retained as a spare at Talcher and utilized based on requirements and confirmed that the existing R-phase transformer may be continued to be used with no power order restriction but with no. of power order operations limited to 3 or 4 per day.
- CGM, SRLDC enquired SR-II, POWERGRID whether spare shifted from Kolar HVDC station to Talcher HVDC station will be used to replace the defective R phase converter transformer in Pole 2.
- SR-II, POWERGRID replied that the spare shifted from Kolar HVDC station to the Talcher HVDC station site will be made ready and kept as a healthy spare and will be used in future if any issue comes in transformer at Talcher HVDC station site.
- CGM, SRLDC expressed to the forum that in the 6 months, the update from SR-II, POWERGRID was that the spare transformer being shifted from Kolar HVDC station to the Talcher HVDC station site is for the replacement of defective R phase converter transformer in Pole 2. In this meeting, SR-II, POWERGRID is updating that the defective transformer wouldn't be replaced. SR peak season is starting from January onwards and we may not be able to use the full power of Talcher - Kolar bipole if there is any reduction in operated capacity due to the continued usage of the existing R phase converter transformer of Pole 2 which is having gas built up issue. ERLDC has also communicated through letter that that due to gas built up issue in the R phase converter transformer of Pole 2, operated capacity of the poles was restricted during the earlier months when demand was high in SR. SR-II, POWERGID has taken a good decision to shift spare transformer from Kolar HVDC station (SR) to Talcher HVDC station (ER). From Dec 24 end/ Jan 25 onwards, the SR demand will increase. In case issue of gas build up increases in the R phase transformer of Pole 2, there may be a possibility of restricting power flow, which is not desirable. Also, replacement of spare in SR peak season by availing shutdown of the pole is not desirable.
- SR-II, POWERGRID mentioned that in the present condition they are not requesting for restriction in operated capacity, only no. of power order

operations may be limited to 3 or 4 per day. After discussion in POWERGRID corporate office last month wrt deliberations in the OCC, they have mentioned to keep the transformer that reached from Kolar HVDC station to the Talcher HVDC station site and may be used in the eventuality if the existing transformer in the pole fails, as the both failed spares at Talcher HVDC station take long time for repair.

- CGM, SRLDC mentioned that the healthy spare can be used to replace the R phase converter transformer in pole 2 and the removed transformer may be studied for the causes of Gas build up.
- MS, SRPC enquired SR-II, POWERGRID about the report of the faulty R phase converter transformer. Change of Spare transformer in the SR peak months, if the situation arises, is not desirable. In case of any chance of problem/failure of the defective transformer, the replacement with the healthy spare may be carried out before SR loads pick up in January 25.
- All SLDCs observed that after inspection of the R phase converter transformer of Pole 2, the replacement needs to be carried out by December 2024. It is not desirable from January onwards where SR load pickup will be there. Power restriction in peak months is not desirable.

220th OCC Conclusion

- ✓ A report may be furnished by SR-II, POWERGRID regarding the analysis of healthiness of the R phase converter transformer of Pole 2 mentioning reasons why the same transformer needs to be retained.
- ✓ The need for replacement of R phase converter transformer to be reassessed by SR-II, POWERGRID, in case of any chance of problem/failure of the defective transformer is there in the peak months, the forum recommends the replacement with the healthy spare may be carried out before SR loads pick up in January 25.

Status may be updated

3.5 S/D of 765 kV Kadappa – Thiruvalam D/C line for diversion of transmission line by M/s NHAI

(i) 215th OCC Meeting: S/D of 765 kV Kadappa – Thiruvalam D/C line(SR I) for diversion of transmission line by M/s NHAI was approved as follows:

- ✓ Spell 1: **approved** from **01.07.2024 - 20.07.2024**
- ✓ Spell 2: **approved** from **01.08.2024 - 20.08.2024**
- ✓ **Spell 3** may be planned form **25.08.2024 - 13.09.2024(In case of no major Inter-regional Shutdown proposals in August 2024**), else from **01.09.2024 - 20.09.2024.**

(ii) 218th OCC Meeting:

Spell **1**: Works have been **completed** during the SD from **02.07.2024 to 30.07.2024.**

Spell **2**: Works have been **completed** during the SD from **10.09.2024 to 03.09.2024**

Spell **3** : SD has been **approved** for the period from **01.10.2024 to 17.10.2024**.

- ***As of*** 02.10.2024***, the shutdown (SD) has yet to be executed. SR I, PGCIL is requested to provide an update.***

219th OCC

Due to swapping of S/D of 765 kV Kadapa – Thiruvalam D/C line (SR I) (Spell 3 works) for diversion of transmission line by M/s NHAI and 765kV C'Peta – Kadapa D/C line S/D for diversion of transmission line at Railway crossing, the S/D of 765 kV Kadapa – Thiruvalam D/C line (SR I) (Spell 3 works) for diversion of transmission line by M/s NHAI will be availed by POWERGRID after the restoration of 765kV C'Peta – Kadapa D/C line S/D availed for diversion of transmission line at Railway crossing. The revised shutdown SD schedules were approved in the OCC Outage meeting.

220th OCC Update:

- ✓ Due to swapping of S/D of 765 kV Kadapa – Thiruvalam D/C line (SR I) (Spell 3 works) for diversion of transmission line by M/s NHAI/ POWERGRID was availed on 30-10-2024 @ 08:55 am (for line I) and 09:02 am (for line 2) respectively.
- ✓ The restoration date may be updated by SR-I, POWERGRID.

220th OCC Deliberations/Conclusion:

- ✓ SR-I, POWERGRID mentioned that 765 kV Kadapa – Thiruvalam D/C line NHAI diversion works may be extended by 3-4 days and the DC line may revive by 20th /21st November 2024.

Update:

- ✓ 765 kV Kadapa – Thiruvalam D/C line (NHAI Spell 3 works) revived on 24.11.2024 (line 1@ 17:05, line 2@ 17:22).

3.6 S/D of 400kV Vijayawada - Vemagiri D/C Line, 400KV Vijayawada - Vemagiri S/C Line, 400kV Vijayawada - Khammam S/C Line and 400KV DC Vijayawada - Nellore D/C line for diversion of transmission lines by NHAI (Additional agenda item by SR-I, POWERGRID).

(i) PGCIL informed that vide letter dated 26.08.2024 and subsequent email dated 03.08.2024, NHAI (copy enclosed) requested for shutdown of 400kV Vijayawada - Vemagiri D/C Line, 400KV Vijayawada - Vemagiri S/C Line, 400kV Vijayawada - Khammam S/C Line and 400KV D/C Vijayawada - Nellore D/C line for construction of 6 lane Vijayawada Bypass from ChinnaAvutupalli (Design Ch.0+000) to Gollapudi (Design Ch.30+000) in Vijayawada- Gundugolanu section of NH 16 on Hybrid Annuity Mode under BharathmalaPariyojana in the state of Andhra Pradesh.

(ii) NHAI had requested for S/D of lines with the below mentioned schedule:

Sl. No.	Name of the line	Period of S/D proposed	Purpose and works involved during the shutdown
01	400kV Vijayawada - Vemagiri D/C Line	18.08.2024 / 09.00 hrs. to 28.08.2024 / 18.00 hrs.	Line diversion works at loc. 3–4 involves erection of 2 nos. in-line towers, stringing and de-stringing and dismantling of 2 nos. existing towers.
02	400kV Vijayawada - Vemagiri S/C Line	05.09.2024 / 09.00 hrs. to 15.09.2024 / 18.00 hrs.	Line diversion works at loc.3-5 involves erection of 2 nos. in-line towers, stringing and de-stringing and dismantling of 3 nos. existing towers.
03	400kV Vijayawada - Khammam S/C Line	21.09.2024 / 09.00 hrs. to 30.09.2024 / 18.00 hrs.	Line diversion works at loc. 299-302 involves erection of 2 nos. in-line towers, stringing and de-stringing and dismantling of 4 nos. existing towers.
04	400kV Vijayawada – Nellore-1&2 D/C Line	08.10.2024 / 09.00 hrs. to 15.10.2024 / 18.00 hrs.	Line diversion works at loc. 39-40 involves erection of 1 no. in-line tower, stringing and de-stringing and dismantling of 2 nos. existing towers.

In the 217th OCC Meeting, the following were concluded:

1) *The SD of 400kV Vijayawada - Vemagiri D/C line from 18.08.2024 / 09.00 hrs. to 28.08.2024 / 18.00 hrs. for NHAI works to be applied through PNOCC. It may be availed subject to SRLDC and APTRANSCO concurrence.*
2) *The SDs of 400kV Vijayawada - Vemagiri S/C Line from 05.09.2024 / 09.00 hrs. to 15.09.2024 / 18.00 hrsand 400kV Vijayawada - Khammam S/C Line from 21.09.2024 / 09.00 hrs. to 30.09.2024 / 18.00 hrs for NHAI works is approved.*
3) *The 400kV Vijayawada – Nellore-1&2 D/C Line from 08.10.2024 / 09.00 hrs. to 15.10.2024 / 18.00 hrs. will be discussed in the next OCC meeting.*

Further SR I PGCIL vide communication dated 04.09.2024(refer had requested for approval of ***400kV Vijayawada – Nellore-1&2 D/C Line from 08.10.2024 / 09.00 hrs. to 15.10.2024 / 18.00 hrs***

218th OCC

(i) 400 kV Vijayawada-Vemagiri D/C Line shutdown (S/D) was availed for NHAI works from August 23, 2024, at 10:50 AM and revived on September 9, 2024, at 7:20 PM.

(ii) SR-I, POWERGRID had indicated that the shutdown of the line is planned to begin on September 14, 2024 and the same was approved.

(iii) SRPC had reported that in the 218th OCC Outage Coordination meeting, the 400 kV Vijayawada-Nellore 1 & 2 D/C line was approved for shutdown from October 18, 2024, to October 25, 2024 (8 days), following the revival of the Cuddapah-Thiruvallam D/C line under Spell 3.

Subsequently, PGCIL had informed that OCC approved S/D of 400kV Vijayawada - Vemagiri-1 line was availed on 14.09.24 (OCC approval till 24.09.24) for line diversion works by NHAI and taken into service on 28.09.24 at 20.25 hrs. after completion of diversion works.

219th OCC

400kV Vijayawada - Khammam S/C line S/D was availed by SR-I, POWERGRID for NHAI works and ADDCAP works from 07.10.2024 @ 12:17 hrs.

- ✓ After the 400kV Vijayawada - Khammam S/C line is restored, 400kV Vijayawada – Nellore-1&2 D/C line S/D will be availed by SR-I, POWERGRID for NHAI works from 23.10.24.
- ✓ The S/D of 400kV Vijayawada – Nellore-1&2 D/C line is approved parallelly along with 765 kV Kadapa – Thiruvalam D/C line (SR I) (Spell 3 works) for diversion of transmission line by M/s NHAI due to favourable grid conditions.

Update:

- ✓ 400kV Vijayawada - Khammam S/C line S/D was availed by SR-I, POWERGRID for NHAI works and ADDCAP works from 07.10.2024 @ 12:17 hrs. The line taken into service on 22.10.24 @ 20.49 hrs. after completion of diversion works.
- ✓ SR-I, POWERGRID vide mail dated 02.11.2024 communicated that due to ROW issues 400KV Vijayawada-Nellore line 1 & 2 could not be availed (this was to be planned to be taken up along with 765 kV Kadapa – Thiruvalam D/C line (Spell 3 works) by NHAI).
- ✓ POWERGRID vide mail dated 07.11.2024 communicated that the S/D of 400kV Vijayawada – Nellore 1 & 2 line was approved in 219-1 Mid-OCC from 04.11.24 – 18.11.24 for line diversion works by NHAI. However, S/D could not be availed by NHAI due to pending ROW issues. Rescheduling of the shutdown is proposed to avail from 16.12.24 – 29.12.24.

Forum may deliberate.

220th OCC Deliberations

- ✓ SRPC mentioned that 400kV Vijayawada – Nellore 1 & 2 line S/D for NHAI diversion works was rescheduled around 4 or 5 times since October 2024 by NHAI/POWERGRID.
- ✓ In the 220th OCC Outage Co-ordination meeting held on 08.11.24, the S/D of 400kV Vijayawada – Nellore 1 & 2 was approved from 16.12.24 to 29.12.24.
- ✓ Subsequently on 11.11.24, SR-I, POWERGRID communicated NHAI letter dated 11.11.24 (Annexure-3.7a) through mail revised S/D of 400kV Vijayawada – Nellore 1 & 2 S/D for NHAI diversion works from 25.11.24 to 06.12.24.
- ✓ SRLDC observed that without any other parallel shutdowns, the SD can be approved from 25.11.24 onwards.
- ✓ APTRANSCO also concurred for the SD from 25.11.24 onwards.
- ✓ Upon a query from SRPC, SR-I POWERGRID mentioned that there wont be any further rescheduling/deferment by NHAI and they are planning the works from 25.11.24 onwards.

220th OCC Conclusion:

Forum approved the SD from 400kV Vijayawada – Nellore 1 & 2 S/D for NHAI diversion works from 25.11.24 to 06.12.24.

Update:

- ✓ SD was availed by NHAI/PGCIL on 25.11.24.

Status may be updated

3.7 S/D of 400kV Kolar – Thiruvallam S/C line for diversion of transmission line by NHAI (Additional agenda item by SR-I, POWERGRID).

POWERGRID vide mail dated 07.11.2024 communicated:

- M/s.NHAI vide their letters dtd: 25.10.24 & 05.11.24 has requested the shutdown of 400kV Kolar – Thiruvallam S/C line from 01.12.24 to 15.12.24 to carry out line diversion works for facilitating construction of four lane Bengaluru – Chennai Expressway from Ch. 127.000 to Ch. 156.000 (Bangarupalem to Gudipala section in the state of Andhra Pradesh) under Bharatmalapariyojana on Hybrid annuity mode.
- Line diversion work involves erection of 3 nos. towers, stringing and de-stringing and dismantling of 2 nos. existing towers during the shutdown.
- Hence, OCC forum may kindly deliberate and concur the S/D of 400kV Kolar – Thiruvallam S/C line from 01.12.24 to 15.12.24 for completion of line diversion works by NHAI.

220th OCC Deliberations/Conclusion:

- ✓ The Shutdown was approved from 01.12.24 to 15.12.24.

Update:

- ✓ SD was not availed by NHAI/PGCIL.
- ✓ PGCIL vide mail dated 30.11.24 communicated that as the preparatory works are still under progress at site which have hampered due to ongoing Fengal cyclone, the shutdown of line is likely to avail from 05.12.24 based on completion of non-shutdown nature works by NHAI.

Status may be updated

- **SR-I, POWERGRID vide letter dated 05.12.2024 (Annexure 3.7A) to NHAI communicated to optimise 6 spells of SD planned at different locations of 400kV Kolar – Thiruvalam S/C to 1 spell and carry out the works.**

Forum may deliberate.

3.8 S/D of 765kV Nellore PS – Kurnool New D/C line for diversion of transmission line by NHAI (Additional agenda item by SR-I, POWERGRID).

POWERGRID vide mail dated 07.11.2024 communicated:

- Shutdown of 765kV Nellore PS – Kurnool New line requested from 20.12.24 to 10.01.25 for line diversion works between loc.# 416-422 by NHAI for facilitating construction of four lane Vijayawada - Bengaluru Expressway in the state of Andhra Pradesh under Bharatmalapariyojana on Hybrid annuity mode.
- Line diversion work involves erection of 2 nos. towers, stringing and de-stringing and dismantling of 2 nos. existing towers during the shutdown.
- Hence, OCC forum may kindly deliberate and concur the S/D of 765kV Nellore PS – Kurnool New line from 20.12.24 to 10.01.25 for completion of diversion works by NHAI.

✓ ***Forum may deliberate.***

Deliberations/Conclusion:

- ✓ The Shutdown was approved from 20.12.24 onwards.
- ✓ SR-I, POWERGRID may confirm regarding the possibility of usage of ERS for this line after discussing with NHAI.

Update:

- ✓ SD was not availed by NHAI/PGCIL.

Status may be updated

3.9 CSD tuning for Transmission elements – Deemed availability certification

For older systems or elements commissioned around 7 years ago or earlier, which originally did not have CSD (Commissioned Service Date), if CSD is now introduced, the downtime (SD) required for initial commissioning (usually 8-12 hours) is being evaluated individually to determine if it should be considered as part of the deemed availability.

For the newly commissioned elements in the recent years (5-6 years), CSD is to be installed at the time of commissioning as it is envisaged."

When fine-tuning is needed for elements, particularly breakers, due to timing deviations observed during their opening and closing after a set number of operations, it takes approximately 2-3 hours to fine-tune each breaker in the 400/765 elements. However, a time window of 4-6 hours is being allowed for deemed availability, depending on the delays encountered with certain elements, and this is being evaluated on a case-by-case basis.

All Transmission utilities may express their views/standards followed in their system

Forum may deliberate.

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