

कार्यालय : बी-9, प्रथम एवं द्वितीय तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Office : 1st and 2nd Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 42785855

ग्रिड-इंडिया/2025/जनवरी
सेवा में,

दिनांक: 03rd January 2025

All stakeholders (As per distribution list)

विषय: Stakeholder Consultation on Draft Procedure for regional entity generating station for getting schedule up to minimum turndown level through SCED.

संदर्भ: Indian Electricity Grid Code (First Amendment) Regulations, 2024 dated 29.10.2024.

महोदय/ महोदया,

Hon'ble CERC notified Indian Electricity Grid Code (First Amendment) Regulations, 2024 on 29.10.2024. As per Clause 6.2(e) of the said regulations, NLDC is required to prepare a procedure for adjusting schedule of section-62 regional entity generating stations to ensure minimum turndown level through SCED including the modalities of payment of charges as per sub-clause (b) of Regulation 49(2)(a) (v-a) of the Grid Code.

Accordingly, a draft procedure has been prepared and is enclosed herewith for your comments and suggestions. It is requested to forward your suggestions through e-mail latest by 15.01.2025 to the following email IDs:

- 1) marketopsnldc@grid-india.in
- 2) amish@grid-india.in
- 3) anupamkumar@grid-india.in

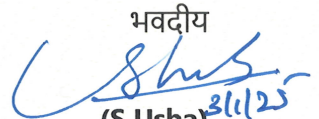
A stakeholder consultation on the Draft Procedure shall be held virtually on 20.01.2025. Link for joining the meeting will be shared separately through mail. All stakeholders are requested to provide their valuable suggestions and participate on the stakeholder consultation session.

धन्यवाद,

प्रतिलिपि:

- 1) Secretary, CERC
- 2) CMD, Grid-India
- 3) Director (SO), Grid-India
- 4) Director (MO), Grid-India
- 5) Head of RLDCs- NRLDC / WRLDC / SRLDC / ERLDC / NERLDC
- 6) Heads of all SLDCs- through concerned RLDC
- 7) **Member Secretary NERPC/ERPC/NRPC/SRPC/WRPC**

Enclosure: Annexure1 – Draft Procedure prepared under 6.2(e) of IEGC 1st amendment regulations

भवदीय

(S Usha)
ED, NLDC

वितरण सूची / *Distribution List*

NER Stakeholders

- 1) General Manager Loktak, NHPC
- 2) Chief Operating Officer Palatana, OTPC
- 3) GM, BGTPP, NTPC
- 4) CGM, AGBPP, NEEPCO
- 5) CGM, AGTCCPP, NEEPCO
- 6) ED Doyang, NEEPCO
- 7) CGM, Kameng, NEEPCO
- 8) CGM, Khandong, NEEPCO
- 9) CGM, Kopili, NEEPCO
- 10) CGM, Panyor, NEEPCO
- 11) CGM, Pare, NEEPCO
- 12) Superintending Engineer (SLDC) Arunachal Pradesh, SLDC
- 13) Chief General Manager, Assam SLDC
- 14) GM (SLDC), MSPCL Manipur SLDC
- 15) Superintendent Engineer (SLDC), Meghalaya SLDC
- 16) Superintending Engineer, Mizoram SLDC
- 17) Superintending Engineer, Nagaland SLDC
- 18) DGM, I/C, SLDC, Tripura SLDC

ER Stakeholders

- 1) Chief Engineer, SLDC, Bihar
- 2) Chief Engineer, SLDC, Jharkhand
- 3) Chief Load Despatcher (SLDC), Odisha
- 4) Chief Load Despatcher, CLD, West Bengal
- 5) Chief Engineer, SLDC, DVC
- 6) Addl. Chief Engineer, Dept. Of Power, Govt. of Sikkim
- 7) Head, East Central Railway, Hajipur, Vaishali, Bihar
- 8) ERTS - I, PGCIL, Alankar Place, Boring Road, Patna
- 9) Head of Plant, NTPC LTD., BARH STPP
- 10) CEO, BRBCL, NTPP
- 11) Chief General Manager NTPC LTD., Darlipali
- 12) Chief General Manager FSTPS, NTPC LTD.
- 13) Executive Director, KHSTPS, NTPC LTD
- 14) CEO, KUBNL, MTPS-II

- 15) CEO, NPGC LTD., Nabinagar STPP
- 16) Head of Plant, NTPC Limited, North Karanpura Super Thermal Power Project
- 17) Chief General Manager TSTPS, NTPC LTD.
- 18) AGM(OPERATION), Maithon Power Ltd

NR Stakeholders

- 1) Director-SLDC, UP State Load Despatch Centre
- 2) Chief Engineer (SO & Comm.) , Haryana Vidyut Prasaran Nigam Ltd.
- 3) Chief Engineer(SLDC), Uttarakhand
- 4) Executive Engineer, Jammu & Kashmir
- 5) Chief Engineer (SLDC), Punjab
- 6) Chief Engineer (LD) SLDC Rajasthan Rajya Vidyut Prasaran Nigam Ltd.
- 7) General Manager (SLDC), Delhi Transco Ltd.
- 8) Director (SLDC), HP State Load Dispatch Centre
- 9) Chief Engineer, UT of Chandigarh
- 10) HOD EEMG-GAS, NTPC-Dadri
- 11) AGM(OnM), Anta Gas Power Project
- 12) HOD EEMG, Auraiya Gas Power Project
- 13) AGM (EEMG), Rihand Super thermal Power Station (stage-I,II &), NTPC
- 14) HOD EEMG, Firoz Gandhi Unchahar Thermal Power Project
- 15) GM(O&M), Indira Gandhi Super Thermal Power Project (IGSTPP)
- 16) HOD EEMG, NTPC-Dadri
- 17) Plant Head, NTPC TANDA SUPER THERMAL POWER STATION
- 18) HOD EEMG, Singrauli Super Thermal Power Station, NTPC

SR Stakeholders

- 1) CGM, NTPC Talcher Kaniha Stage2
- 2) CGM, NEYVELI TS II
- 3) CGM, NTPC RAMAGUNDAM
- 4) Plant Head, SIMHADRI STAGE I
- 5) Plant Head, SIMHADRI STAGE II
- 6) CEO/NTPL, NLC Tamil Nadu Power Limited
- 7) CEO, NTECL VALLUR TPS
- 8) General Manager NEYVELI TS I EXPN
- 9) CGM, KUDGI

- 10) General Manager, NEYVELI TS II EXPN
- 11) Chief General Manager, NNTPS
- 12) CGM, NTPC TELANGANA
- 13) GM/Commercial NLC India Limited
- 14) Chief Engineer, Andhra Pradesh
- 15) Chief Engineer (LD)Karnataka
- 16) Chief Engineer (Transmission and System Operation) Kerala
- 17) Superintending Engineer (SLDC), Pondicherry
- 18) Chief Engineer (GO), Tamil Nadu
- 19) Chief Engineer (SLDC)Telangana
- 20) COASTAL ENERGY

WR Stakeholders

- 1) Head of O&MNTPC SAIL POWER COMPANY LIMITED
- 2) Plant Head/Shift Incharge NTPC Korba
- 3) Plant Head/Shift Incharge NTPC Vindhyachal
- 4) Plant Head/Shift Incharge NTPC Gadawara
- 5) Plant Head/Shift Incharge NTPC Solapur
- 6) Plant Head/Shift Incharge NTPC Sipat
- 7) Plant Head/Shift Incharge NTPC Mouda
- 8) Plant Head/Shift Incharge NTPC Lara
- 9) Plant Head/Shift Incharge NTPC Kargone
- 10) Chief EngineerSLDC Madhya Pradesh
- 11) Chief EngineerSLDC Maharashtra
- 12) Chief EngineerSLDC Gujarat
- 13) Chief EngineerSLDC DNH & DD
- 14) Chief EngineerSLDC Goa
- 15) AGM (Comml)NTPC WR-1 RHQ
- 16) AGM (OS)NTPC WR-1 RHQ



Grid Controller of India Limited
(Formerly: Power System Operation Corporation Limited)
National Load Despatch Centre (NLDC)

**Draft Detailed procedure for moderating schedule up to minimum
turndown level for Section 62 generators through SCED**

Prepared in Compliance to
SI 6.2(e) Indian Electricity Grid Code (First Amendment) Regulations, 2024
Revision – 0: 3rd January 2025

1. Background:

Central Electricity Regulatory Commission vide Notification No. L1/265/2022/CERC, dated 29.05.2023, notified Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 (hereinafter referred to as "Principal Regulations"), which has been made effective from 01.10.2023.

After the notification of the Principal Regulations, some difficulties were brought to the notice of the Commission by the stakeholders, including generating stations, Grid-India, and RPCs. The Commission vide Order dated 30.09.2023 and 18.12.2023 through Suo-Motu Petition No. 14/SM/2023 and 18/SM/2023 addressed some of the difficulties indicated by the different stakeholders under the provisions of 'Power to relax' and 'Power to remove difficulties' of the Principal Regulations.

In light of the Suo-Motu Orders dated 30.09.2023 and 18.12.2023 in Petition No. 14/SM/2023 and 18/SM/2023, and subsequent developments, the relevant provisions of the Principal Regulations have been amended vide. Indian Electricity Grid Code (First Amendment) Regulations, 2024 dated 29.10.2024.

This Procedure is prepared in accordance with Indian Electricity Grid Code (First Amendment) Regulations, 2024 sl-6.2(e).

2. Definition and Interpretation:

2.1 All the words and expressions used in this Detailed Procedure shall have the same meaning as assigned to them in the Indian Electricity Grid Code 2023 and its 01st amendment and any other extant regulation.

2.2 "**D**" day means day of operation.

"**D-1**" day means one day before the day of operation.

"**D+1**" day means one day after the day of operation.

3. Applicability

- 3.1. This procedure shall be applicable for all thermal regional entity generating stations (Coal/Gas/Lignite), whose tariff is determined under Section 62 of the Act. hereinafter referred to as "Eligible Generating Stations".
- 3.2. This Procedure shall be applicable from the date as may be notified by the Hon'ble CERC.

4. Role of RLDCs

- 4.1. RLDCs shall be responsible for declaration of "Peak" and "Off-Peak" Hours in a month. The number of hours of "Peak" and "Off-Peak" periods during a day shall be four and twenty, respectively. The hours of Peak and Off-Peak periods during a day shall be declared by the concerned RLDC at least a week in advance as stipulated in the CERC Terms and Conditions of Tariff Regulations 2024.
- 4.2. RLDCs shall coordinate with NLDC for scheduling and energy accounting of the eligible generating stations under this procedure.

5. Role of Eligible generating stations

- 5.1. The eligible generating stations shall coordinate with the respective RLDCs for all matters related to scheduling and despatch. All eligible generating stations seeking schedule up to minimum turndown level through SCED shall convey their request to NLDC, with intimation to respective RLDCs.
- 5.2. At 14:30 Hrs of D-1 day, the eligible generating stations shall review their injection schedules for D-Day, as published by the respective RLDCs over Web Based Energy Scheduling portal (WBES).
- 5.3. If any eligible generating station gets a schedule below minimum turndown level (MTL) during Off-Peak hours of D-day, whereas, it gets a schedule above minimum turndown level during any time block in Peak hours of D-day, then the concerned generating station shall report the same to NLDC by 15:30 hours of D-1 day, with intimation to the respective RLDCs.
- 5.4. By 20:00 hours of D-1 day, the said generating station shall furnish documentary evidence to the respective RLDCs and NLDC, on all efforts made by them to achieve

minimum turn down level through the sale of power in the Power market (under bilateral or collective transactions). This shall be furnished as per a standard declaration format attached as **Format-A1**.

If despite all efforts as highlighted in **Para-5.4**, the said generating station gets a schedule below minimum turndown level (MTL) during off-Peak hours of D-day, while it gets a schedule above minimum turndown level during any time block in Peak hours of D-day, it will furnish a request to NLDC, through the respective RLDC to revise their schedule upwards up to their minimum turndown level through SCED mechanism.

- 5.5. Standard declaration on D+1 by 02:00 Hrs: The power plants are also required to achieve schedule of Minimum turndown level (MTL) on the day of operation through their efforts for sale of power in the Power market (under bilateral or collective transactions in RTM). Power plants getting technical minimum support through SCED need to provide a standard declaration electronically explaining their efforts made to achieve schedule of minimum turndown level through sale of power in the Power market (under bilateral or collective transactions) to NLDC after the day of operation is over i.e. by 02:00 hours (i.e. 2 AM) of D+1 day.

6. Role of NLDC

- 6.1. After 1430 Hrs of D-1 day, NLDC, in coordination with RLDCs, shall prepare the list of generating stations that are likely to go below their minimum turndown level.
- 6.2. The list of generating stations which are getting schedule below minimum turndown level during Off-Peak hours of the day, however, getting schedule above minimum turndown level during Peak hours and are not committed under SCUC mechanism shall be published on NLDC website by 15: 00 Hrs.
- 6.3. Based on the request received from the eligible generating stations and their standard declaration (Format A1) submitted, NLDC shall publish the list of generating stations that would be considered for MTL support through SCED for next day (D Day) by 20:30 Hrs of current day (D-1 day). The list shall be published in NLDC website.

7. Security Constrained Economic Despatch (SCED) for technical minimum support:

- 7.1. The plant mentioned in the list shall get support through SCED to achieve schedule up to their minimum turndown level.
- 7.2. If for any other regional entity generating stations (only Sec-62 generators) which are not mentioned in the list published by NLDC on D-1 day at 20:30 Hrs, injection schedule goes below the minimum turndown level on "D" day due to any reason, such as change in requisition or synchronisation of new units etc., such generators shall not be eligible for MTL support through SCED.
- 7.3. The eligible generating stations mentioned in list published by NLDC on D-1 day at 20:30 Hrs shall get schedule through SCED up to their respective minimum turndown level. Equivalent SCED down shall be despatched through other generating stations by duly following merit order to the extent of down reserve available. The stack shall be prepared from highest energy charge rate to lowest energy charge rate and after duly considering technical limits of generator such as ramp up, ramp down rates etc.
- 7.4. SCED shall run after the Real Time Market (RTM) dispatch as per the timeline defined the Grid code 2023.
- 7.5. There shall be no segregation of regular SCED and incremental SCED support provided for meeting minimum turndown level in the schedules. However, such segregation shall be done on post facto basis for accounting and settlement purpose.
- 7.6. In a time block there may be instances, where it may not be possible to provide equivalent down SCED against the total SCED Up due to unavailability of commensurate ramp limited down reserves. Accordingly, there could be possibility for net negative savings in SCED.

8. Accounting and Settlement of regional entity generating stations getting technical minimum support through SCED.

- 8.1. The incremental/decremental SCED schedules shall be maintained separately in the scheduling system.

- 8.2. The schedule of beneficiaries shall not be changed on account of SCED. Buyers or beneficiaries shall continue to pay the charges for the scheduled energy directly to the generating station(s) participating in the SCED.
- 8.3. The eligible generating stations getting technical minimum support through SCED shall be paid from the 'National Pool Account (SCED)' at the rate of its energy charge or SCED Compensation Charge rate declared upfront by the generator.
- 8.4. NLDC shall segregate SCED Up (excluding technical minimum support SCED up) along with equivalent quantum SCED down from highest to lowest its energy charge or SCED Compensation Charge.
- 8.5. After segregation of SCED Up and its equivalent quantum of SCED Down, the net cost of SCED Up for providing technical minimum support shall be calculated along with corresponding SCED Down.
- 8.6. After calculation as mentioned in clause 8.4, the following shall be done:
- 8.6.1. In case, in a time block the net inflow to SCED pool for total SCED energy charge or SCED Compensation Charge for SCED down despatch is higher than the net out flow from the pool towards SCED energy charge or SCED Compensation Charge for technical minimum support given through SCED Up despatch, the differential amount shall be considered as savings in SCED.
- 8.6.2. In case, in a block net inflow to SCED pool for the total SCED energy charge or SCED Compensation Charge for SCED down despatch is lower than the net out flow from the SCED pool towards SCED energy charge or SCED Compensation Charge for technical minimum support through SCED Up, the differential amount shall be payable by the entity which have caused the schedule of the generating station or unit thereof to go below minimum turndown level.
- 8.6.2.1. The differential shall be payable by the beneficiaries of those regional entity generating stations getting technical minimum support through SCED in proportion to their shortfall in requisition.

8.6.2.2. The shortfall in requisition for tech min support for a beneficiary shall be considered as = (55% share for tech min support - requisition as per ramp rate considered for deriving the schedule of the plant).

8.6.2.3. The details mentioned in the implemented schedule shall be used for deriving the shortfall in requisition.

8.6.2.4. NLDC shall issue a monthly statement "National SCED Statement for Technical Minimum support" comprising of payment and along with the beneficiaries name within 10 days of issuance of "National SCED Monthly Statement".

8.6.2.5. The concerned beneficiaries shall pay the applicable charges to the 'National Pool Account (SCED)' within 10 days of the issue of National SCED Statement for Technical Minimum support.

8.6.2.6. If payments by the beneficiaries, are delayed beyond ten (10) days from the date of issuance of the " National SCED Statement for Technical Minimum support" by the NLDC, the defaulting beneficiaries shall pay simple interest @ 0.04% for each day of delay on the payable amount.

8.7. There shall be no post-facto revision of monthly statement "National SCED Statement for Technical Minimum support" once issued.

Format-A1: "National SCED Statement for Technical Minimum support"

(To be issued by NLDC)

For Month <from date > <to date>

Date of issues dd.mmm.yyyy

(i) SCED Generator provided technical minimum support

SL No	Region	Generator Name

(ii) Total shortfall towards payment of SCED energy charge or SCED Compensation Charge for technical minimum support through SCED Up= Rs

(iii) The cost apportioned to the beneficiaries

Sl no	Beneficiary Name	Total shortfall in requestion (MU) (A)	Apportion of total shortfall towards payment of SCED energy charge or SCED Compensation Charge for technical minimum support through SCED (B)
1	Beneficiary 1		= (A)*ii/(B)
2	Beneficiary 2		
3	Beneficiary 3		
5	Beneficiary 4		
6	Beneficiary 5		
7	Beneficiary n		
	Sum of requisition	(B)	