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Mumbai - 400051

No. Dir(Op)/Tech/Outage system/2419/437

Date: 06 JAN 2012

C I R C U L A R

**Sub:- Operational guidelines for outage proposal to SLDC**

**Preamble:**

It is noticed that planned/emergency/forced outages of EHV equipments, lines, transformers, bus, reactors, etc. are availed to carry out various works as per requirement including maintenance, testing, retrofitting, LES, line crossing works, erection of in line towers etc. However it is noticed that outages are not well organised in a disciplined and planned manner, lacking in preparedness and sometimes are not adhered to the schedule.

As per MERC regulations the target level of (EHVAC) system availability is 98% and above. This means that at the most, on average only 2% margin is available to accommodate plan or emergency works. Therefore, it is felt necessary that all outages should be well structured and managed in an optimum manner so that duration of outage, mitigation of risk involved and interruptions to consumers are minimized.

MSETCL transmission grid is integrated with Western Regional grid and further with National grid. Hence, any outage on grid lines has impact on diversion of power flow on other lines. As per IEGC-2010 and the State Grid Code, outages of all 400 KV elements and inter-state grid lines are to be approved by Regional Load Despatch Centre well in advance. Further, annual outage plan for forth coming financial year is being prepared by WRPC by December and review of planned outages is carried out on monthly basis during Operating Co-ordination Committee meetings. Hence, annual outages of grid lines and 400/220 kV ICTs are to be submitted for approval of WRPC by the end of November for the next year.

**Outage Management System:**

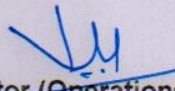
In view of above following guide lines issued for proper planning of grid element outages.

1. Annual outage plan of next year for lines and equipments under respective circles / zones shall be submitted to SLDC by October end every year out of which 400 kV/Inter-state line outages are to be submitted by SLDC for onward approval by WRPC. Annual Outage plan is also to provide operational planning by SLDC in coordination.
2. Derived from the annual outage plan, monthly outages proposed during 20<sup>th</sup> day of the month to 19<sup>th</sup> day of next month shall be submitted to SLDC latest by 01<sup>st</sup> day of the month. These outages are discussed in OCCM along with proposal from other state constituents / Generating unit outages and are approved by WRPC.
3. All the concern shall note that most of works pertaining to construction, LES, retrofitting and regular maintenance shall be carried out in planned manner and with prior approval of WRPC / SLDC.

4. It is observed that most of the outage proposals are submitted to SLDC on day-ahead basis and that to by late evening. It becomes difficult to obtain approval to such outages from WRLDC / WRPC as other parallel corridor outages are already planned in advance.
5. Any proposal for re-orientation of system configuration shall be submitted along with single line diagram and plan for work involved.
6. All outage proposals shall be submitted through concerned EHV (O&M) authorities. In case of line outages, other end concerned authority must be informed the outage so that any work at that end can be carried out during same outage period.
7. Except outages for emergency work, all other proposals shall be submitted to SLDC / ALDC at least one day in advance.
8. All communications regarding outages and outage proposals shall be forwarded to SLDC only on e-mail ID "msldc\_outage@mahasldc.in".
9. Following additional information shall be incorporated in existing outage proposal; format (enclosed)
  - a) Name and Designation of the officer responsible for site work
  - b) Mobile / Land line contact number of the officer responsible for site work.
  - c) Remark as "prior information of outage" is given to other end sub-station and concern line maintenance divisions in case of line outages.
10. The targeted work during outage should be organised by ensuring proper resources, material, equipments and coordination of various activities. It should be completed under close supervision and monitoring by taking necessary safety and security precautions.
11. The outage should be completed within the scheduled time. If due to unforeseen situation, the outage is forced to extend beyond scheduled time, it must be informed to SLDC immediately & other concerned officers/Authorities of MSEDCL/MSETCL in field and Corporate Office should be informed as well.

All Zonal CEs and SE/EEs should follow above guidelines with immediate effect and shall stick up to the planned outage program.

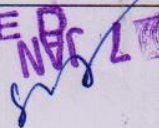
Encl: format

  
Director (Operations)  
9c

To  
All Chief Engineers in Zone & Corporate Office/ SLDC  
All Superintending Engineers EHV (O&M)/(Const) Circles  
All Executive Engineers in field.

Copy s.w.r. to:  
The CMD, MSETCL / MSEDCL Corporate Office, Mumbai

Copy f.w.c. to:  
The Director (Projects) MSETCL/ Director (Operation) MSEDCL, Corporate Office, Mumbai

ISSUED  
Date 21/02/2012  
Initials : 

( Letter Head of concern office )

**FORMAT FOR SUBMISSION OF OUTAGE PROPOSAL TO SLDC**

Sub : Outage on -----  
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1	Name of Division and Circle	
2	Name of line / equipment proposed for outage	
3	Date and Time when outage is required	From: To: Total Duration:
4	Nature of work to be carried out	
5	Continuous or on daily basis outage, ( in case of long duration outages)	
6	Previous maintenance work carried out on date and time	
7	Load on line / equipment in MW / Amp 1) Maximum/ 2) Minimum	
8	Whether alternate supply is available during outage? (specify if yes)	
9	Quantum of Load (MW) and Area affected during outage	
10	NOC of concern utilities/Licensee obtained?	
11	Any other relevant information pertaining to proposed outage	
12	Name and Designation of the officer responsible for site work.	
13	His contact number - Mobile: Land line:	
14	In case of area affects: i) Name of the officer in-charge of MSEDCL in that area with Mob/Landline number ii) Whether wide publicity is given by concerned MSEDCL authorities (Yes/No)	
15	In case of line outage, whether other end sub-station, line maintenance unit/Division is informed.	
16	Remark/Comment if any.	

Note : A single diagram shall be enclosed in case of outages where network configuration is changing and in case of LILO works and activity chart in case of long duration outages.

Signature of  
EHV (O&M) authority