EXPERIENCE OF DEVELOPMENT AND IMPLEMENTATION OF SOMS (SYSTEM OPERATION MANAGEMENT SOFTWARE)

C2 - Power System Operation and Control

PS1 - System Control Room Preparedness: Today and in the Future

Question 1.1:

There are a large set of tools and platforms made available to control room operators each one bringing their own benefits. Is there a limit of tools per control room operator and how is it measured?

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Answer

- Visualization tools like SCADA, PMU is available for monitoring the real time operation. Various software e.g. Web based scheduling, Outage management portal, Tripping portal, Demand & RE forecast, Silt monitoring portal, Daily operational report portal have been made available to real time load despatchers.

- State estimator, DTS, offline simulation tools for operational planning and contingency studies to support the real time load despatchers in decision making in line with grid code and other regulations.

- In addition, various documents such as Operating procedure of LDC, Important grid element , Black-start restoration procedure, Power map has been compiled in line with Grid code and it is also made available to control room operators for quick reference.

Answer

- In view of disaster management, Back-up control centre has been set up and is operational.

- In view of large Renewable energy integration in India, separate control room i.e Renewable Energy Management Centre (REMC) has been made available to the real time load despatcher.

- RE forecasting, scheduling, real-time monitoring through SCADA & PMU is being done.

- All the tools available at control room is accessible to all the real time load despatchers.