

Reliability-factor-based justification of technical measures in the external power supply scheme design.

Antonov A. A., Dvorkin D. V., Purshev I. A., Khalezin D. A.

The ensuring the reliability factors in the external power supply scheme desing is essential for industrial companies and causes safety and non-interrupting power supply at a continuous production cycle enterprise. Recently, the authors completed research, in which the justification of technical measures for the grid renovation was based on the results of reliability calculations. As a results of this study, the authors showed the need for reliability calculations using 35 kV and above overhead lines with multiple intersections as an example. In the article this result is presented.

Key words: external power supply scheme, power supply reliability, reliability factors, network equipment, uninterrupted power supply, continuous production cycle plant.