

*Novikova A. N., Shmarago O. V.*

**Methodical and practical aspects of lightning protection at NIPT.**

The main trends of lightning protection research activities at JSC «NIPT» are reviewed. The results of these projects became the base for proper energy industry methodical and guidance documents development, as well as for 110–1150 kV OHL lightning protection schemes design and modernization, including the OHL passing through the difficult environments areas.

*Key words: overhead power lines, lightning protection, lightning protection facilities, grounding resistance, line insulation discharge characteristics, lightning currents statistic, design, operational experience, surge arresters, lightning insulation flashovers distribution between the conductors of OHL without ground wires.*

*Novikova Alexandra Nikolaevna*, Head of Section Lightning Protection of High Voltage Technique Department of the High Voltage Direct Current Power Transmission Research Institute (NIPT).

E-mail: novikova\_a@ nipt.ru

*Shmarago Oksana Vladimirovna*, Researcher of High Voltage Technique Department of the High Voltage Direct Current Power Transmission Research Institute (NIPT).

E-mail: shmarago@yandex.ru