To the issue of the inspection of overhead power lines

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For inspections of overhead lines, it is possible to use unmanned aircraft (UAV), which are intended for conducting airborne optical-electronic (photo, video, infrared) reconnaissance of the terrain and objects.

UAV can be equipped with attachments, with the help of which it is possible to conduct thermal imaging diagnostics of overhead lines, insulators, contact connections and fittings in order to identify elements that are exposed to temperature heating due to the occurring defects.
Recommendations on the practical feasibility of the use of UAV for conducting overflights and inspections of linear structures can be made when considering the specific configuration of the enterprise’s electrical grid in a particular region of our country, taking into account seasonal climatic factors. But in general, it can be concluded about the possibility of using such innovative technologies as UAVs for everyday use in industrial enterprises.

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