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в чрезвычайных ситуациях. Обеспечивается изоляция участка рекультивации от возможного загрязнения жидкостями, четкий контроль регламента заправки с современными заправочными системами.

Рассчитываем, что разработанный комплекс мероприятий по восстановлению нарушенных территорий и приведению почвы в надлежащее состояние на анализируемом объекте будет внедрен в самые кратчайшие сроки. ■

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Risk Assessment During the Implementation of Reclamation Activities

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key words

risks, identification of causes of risk events, emergency situation, safety

According to the environmental management risk assessment guide, acceptable environmental risk is a compromise between the level of safety and the economic feasibility of achieving it. We have analyzed the various types of risk that may accompany the process of soil reclamation at the facility in the area of Cape Kamenny in the Yamalo-Nenets Autonomous Okrug. Emergency situations associated with diesel fuel spills were analyzed, taking into account the primary parameters (area and radius of spreading), the dynamics of fuel spread, the causes of risk events were identified and assessed, the consequences and response measures, as well as preventive measures were determined.

References

1. GOST R 14.09–2005 Environmental management. Guidelines for risk assessment of environmental management; <https://docs.cntd.ru/document/1200077552>.
2. GOST R 22.10.02–2016 Safety in emergency situations. Emergency risk management. Acceptable risk of emergency situations; <https://docs.cntd.ru/document/1200136698>.
3. GOST R 58771–2019 Risk management. Risk assessment technologies, Moscow, *Standartinform*, 2020, 86 P.
4. GOST R IEC 31010–2021 Reliability in engineering. Risk assessment methods; <https://docs.cntd.ru/document/1200180987>.
5. GOST R 27.303–2021 Reliability in engineering. Analysis of types and consequences of failures; <https://docs.cntd.ru/document/1200180916>.
6. Mascia A., *Accreditation and Quality Assurance*, 2020, no. 25, pp. 311–321.
7. Kurmasheva I.G., Movchan N.I., *Vestnik Kazanskogo tekhnologicheskogo universiteta*, 2015, no. 8, pp. 318–323.
8. Vazdani S., etc., *Environment & Ecosystem Science*, 2017, no. 1(2), pp. 16–18.
9. Kolesnikova L.A., Novikov A.S., *Ugol'*, 2019, no. 4, pp. 97–100.
10. Kolesnikova L.A., Novikov A.S., *Ugol'*, 2019, no. 6, pp. 98–101.
11. Nikolaeva N.G., Goryunova S.M., *Vestnik Kazanskogo tekhnologicheskogo universiteta*, 2015, no. 7, pp. 162–167.
12. Methodological foundations for hazard analysis and accident risk assessment at hazardous industrial facilities: safety guidelines. Rostekhnadzor Order of 3.11.2022 N 387; <https://docs.cntd.ru/document/1300154647?ysclid=m7szgl0zm168261294>.
13. GOST R 55475–2013 Winter and Arctic diesel fuel dewaxed. Technical conditions; <https://docs.cntd.ru/document/1200103019?ysclid=m7szllhqpf638226312>.