In the article the main design errors of the systems of rubbish disposal over recent years are considered, in which the systems of water supply and water disposal had a supporting role. The main problems arising during operation of dry cold refuse chutes, the deprived new technical solutions on water supply and sewerage are shown.

Solutions of the main task of ensuring sanitary and hygienic safety of people living in the building by installation and operation of special clearing devices with a supply of cold and hot water are provided. They allow placing the necessary equipment for cleaning an internal surface of a trunk of a refuse chute in the compact case. It will allow not only to get rid of unpleasant smells, but also will prevent distribution of rodents and insects in the whole residential building. Also this device allows fighting against obstruction of a trunk of a refuse chute large-size subjects that isn’t a rarity recently at operation of a dry cold refuse chute in a building.

Much attention is paid to the organization of fire safety in case of possible fire in the collecting garbage camera that can lead to smoking of staircases and poisoning with carbon monoxide of people living in the building. The technical solutions are given, which allow to refer to using sprinkler fire extinguishing system because of its inefficient work for fire extinguishing in the collecting garbage camera. It is offered to pass to the deluge systems, allowing to extinguish a fire either automatically with the help of smoke sensor installed indoors, or by means of the controlling service personnel in the garbage container.

The special attention is paid to consideration of the questions of suppression of possible ignition in a refuse chute trunk, which can occur at ejection of a burning subject in the trunk hammered with large-size garbage. As the solution to this problem it is offered to use also drencher fire extinguishing and special gas analyzers for catching of vapors of a caustic smoke, which can suddenly appear and lead to serious incidents.

**Key words:** refuse chute, sprinkler, drencher, ladder, water supply, water disposal, collecting garbage camera, clearing device, trunk, obstruction.

### References


3. Isaev V.N., Mkhitaryan M.G. Aktualizatsiya SNiP 2.04.01—85* [Update of Construction Norms and Requirements SNiP 2.04.01—85*]. Tribuprovody i ekologiya [Pipelines and Ecology], 2009, no. 3, pp. 11—15. (in Russian)


9. Lukasheva E.P. Ot musora k toplivu [From Garbage to Fuel]. Tverdyie bytovye otkhody [Municipal Solid Waste], 2010, no. 4, pp. 58—59. (in Russian)


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