

INTERNATIONAL KORKUT ATA SCIENTIFIC RESEARCHES CONFERENCE

Osmaniye Korkut Ata University
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Editors

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ABSTRACTS BOOK

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FIRE SAFETY ENSURING OF PETROLEUM STORAGE TANKS

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One of the most difficult problems is extinguishing fires in storage tanks for flammable liquids, in particular, oil and petroleum products. The problem is in the necessity to cover the entire surface of the fuel with the fire extinguisher to extinguish the flame, and the need to cool the flammable liquid so efficiently that reigniting is impossible.

In tanks, in most cases, the liquids combustion begins with the explosion of flammable liquid vapors under the roof of the tank, in this regard, there is the deformation and ignition of flammable liquid in the tank. The flame reaches the height of the two diameters of the tank and has the temperature depending on the flammable liquid in the range of 1000-1300 ° C. The flame could deviate significantly during the action of the wind and already at the initial stage of the fire there is a possibility of spreading the flame to neighbor tanks or objects. Such the flame of a burning tank flame heats the walls, roof, breathing and other equipment located on the roof of the adjacent tank. The danger of heating the flame retardant to high temperatures leads to the loses of its flame retardant properties, and the flame of the hot tank could easily get inside the adjacent tank, causing the explosion of vapors of its combustible liquid. In addition, due to the heating of the walls and roof of the adjacent tank increases the rate of evaporation of combustible liquid stored in it. In this case, if the tank stores aviation fuel with the low flash point, then inside the tank may form the concentration of the combustible mixture above the upper explosive limit of aviation fuel.

In this case, excessive pressure has been created inside the tank, which prevents the flame from entering, and flammable vapors flowing through the breathing apparatus could ignite from the flames of the burning tank, flammable vapors over the breathing apparatus, causing heating of this structure. Heating the tank in which a combustible liquid with a high flash point, such as diesel fuel, has been stored is dangerous and consists in the fact that an explosive concentration of diesel fuel vapor may be formed inside the tank during heating. In this case, the adjacent burning tanks must be cooled with water, thus preventing the possibility of the explosion inside them.

As the storage tanks have the huge volume of combustible substances, the fire could lead to serious consequences. Therefore, the issue of damping splashes, reducing their amplitude is relevant [1-4]. For this purpose, various types of partitions have been installed in the tanks.

The influence of cross vertical and circular horizontal partitions on the reduction of the aggregate sloshes amplitude in cylindrical tanks under the action of seismic loads has been investigated (Fig. 1).

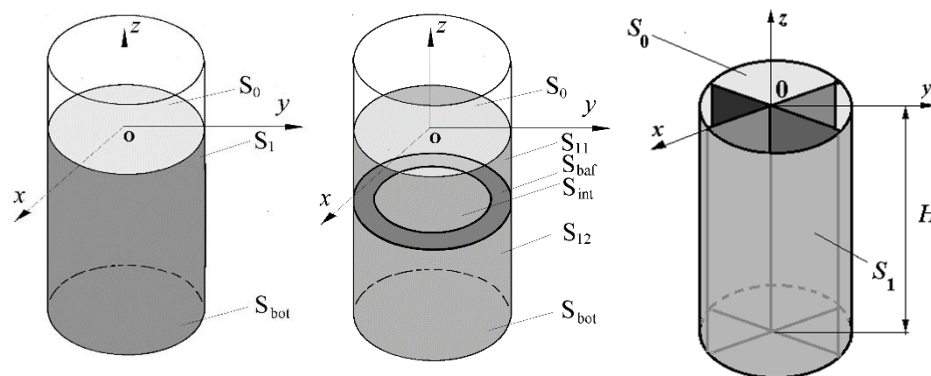


Fig. 1 Petroleum storage models



The obtained results indicate that the partitions installation leads to the fluctuations decreasing in the rise level of the free surface of the liquid in the tanks. The partitions use in storage tanks for environmentally hazardous liquids is the effective solution to prevent environmental pollution and fires in tanks [1-4].

The properties of composites and nanocomposites with disordered and ordered systems of carbon fiber inclusions, which could be used to neutralize static electric charges that occur in oil storage facilities and could lead to emergencies, have been studied in [5].

It is possible to install partitions in storage tanks for flammable liquids from composites and nanocomposites with disordered and ordered systems of carbon fiber inclusions to neutralize static electric charges. The combination of carbon fiber nanoinclusions and inclusions in the form of steel balls in the composite materials of the partitions will also extend the heating time of the liquid during the fire.

Keywords: composites, nanoinclusions, fire safety, petroleum storage tanks.

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