

## عنوان مقاله:

Modification of finger type transfer line exchangers for resolving the problem of corrosion and failure in hot tube sheet section

## محل انتشار:

ششمین کنگره بین المللی مهندسی شیمی (سال: 1388)

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## خلاصه مقاله:

As we know the transfer line exchangers are widely used in olefin plants for quenching of cracked gases outlet from furnaces and is used to prevent the formation of unwanted materials that may decrease the efficiency of olefin productions. The other benefit of this process is the generation of high high pressure steam. The main specification of this exchangers is a considerable high temperature of cracked gas inlet to TLE that enforce a high heat flux to hot tube sheet especially at center and cause the problem of corrosion and ultimately failure of tube sheet. In this paper three different types of TLEs compared to each other and with considering the Natural circulation water tube boiler calculations results for finger type TLE, several modifications proposed to improve the problem of failure in hot tube sheet section for this type of TLE

## کلمات کلیدی:

TLE, Transfer Line Exchanger, Modification, Water Tube Boiler

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