Chemwork

Selection of Heating system for Tankage oil Terminal where no utility is available

Saeed Abdollahi
Process Engineer at Wood Group - CCC Ltd (Oman)

Hi Friends,
Is there anybody have information about feasiblility study of selecting the steam system or hot-oil circulation system as a heating medium in fuel oil tankfarm area?

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Wilfredo Garcia
Process Specialist at Ecopetrol

Wilfredo

Dear Saeed,

According to what I have seen in projects, the study depends on the utility availability, allow me to explain you:
1.- I have worked in a couple of LNG projects where the heating medium is hot water
2.- In another project, dealing with cryogenic process, the heating medium selected was hot oil, because a steam generation system becomes expensive.
3.- Par contre, in refineries, there are possibilities of steam generation from heat streams, so the heating mediom perefered is steam.

You don't mention which project or process plant are you dealing with, this additional information will enable the recommendation from the forum.

Cheers,

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Saeed Abdollahi
Process Engineer at Wood Group - CCC Ltd (Oman)

Saeed

Dear Wilfredo,

This is a oil terminal tankage which has 6 fuel oil tank.

Thanks.
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Wilfredo Garcia
Process Specialist at Ecopetrol

Wilfredo

Hello again Said,

If this oil terminal is not part of a refinery, the recommendation is to study and run a factibility analysis considering the following systems: hot oil, steam generation, electricity. Establish a comparative table with pro/cons, estimated cost, constructability, maintenance, etc in order to get the best recommended system.

I hope this will helps.