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what are the standards engineering codes require to design tank with submerged coil ?

Faheem Iqbal

ENGINEER IV PROCESS at Arabian Consulting Engineering Centre (ACEC) "Engineering-Design-Project Management

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Mojtaba Habibi

Process Engineer at Petroleum Engineering and Development Company (PEDEC)
Top Contributor

Mojtaba You can check this technical paper:

How to Design Tank Heating Coils

David Stuhlberg

April 1959, Petroleum Refiner

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Wilfredo Garcia

Process Specialist at Ecopetrol

Wilfredo

Faheem, as far as I remember, the codes required for tanks is still API 650, but you have to specify in the data sheet or to the Mechanical team there will be a coil inside the tank

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Saeid R. Mofrad

Principal Process Engineer at Petrofac (P.E.)
Top Contributor

Dear Faheem,

Are you concerned about tank design when there is a coil? I don't see any difference between a tank with or without coil according to API-620 and API-650 requirements.

If you are concerned about tank heat loss calculation, there is not standard. there are some papers how to calculate tank heat loss. you have to specify the heat loss (and coil surface area for non electrical heaters) and tank manufacture will specify type and other details of the coil for you. Ask tank vendor if they have expertise to carry out entire design from heat loss calculation to coil design.

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Gestur VALGARDSSON
EFLA Engineering

Gestur

Fahren. For the US market, use API 650, not in the 12th edition, for EU market use EN 14015. Both standards are quite similar. Regarding the coils. I do not know of any standards. However, Shell has published what they call Standard Drawings which show some excellent examples of tank design.

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