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**For LPG recovery plant and Storage system, which venting system is more recommended burn pit or flare tip through flare header. also explain rational for comparion, give reference of standards**

**Affan Sadiq**

Lead Process Engineer at OMV

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3 comments



Affan

**Affan Sadiq**

Lead Process Engineer at OMV

Normally dispersion analysis and safe radiation zones are the defining criterions for locating and designing flare tips. If the said parameters are met by burn pit, that should one go for the solution. Also in case of any BDV or PSV opening in a LPG system, what are chances of freezing of the discharged fluid, basing on 60-40 propane butane ratio. is it normal practice to provide heat tracing for LPG flare lines.?

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**Saeid Rahimi Mofrad**

Senior Specialty Process Engineer at Fluor

Burn pit is normally used for remote wellheads where:

- 1-There are few sources of vents (piping and DBB venting). Small amount of gas can be burnt in burn pit but for a process plant with several depressuring sections and huge HP vessels flare is the only option.
- 2- Depressuring is not frequent operation compared to process plant. Frequent depressuring makes flare system more attractive.
- 3- There is a possibility of two-phase flow while venting. Flare can recover liquid and burn the gas only but the question in remote location is what to do with recovered liquid. Burn pit can simply two-phase stream.
- 4-There is no stringent environmental regulation. Unlike elevated flare, burn pit burns the vent stream at ground with high noise and radiation.

For LPG plant burn pit is not an option.

I assume you are going to use heat tracing on flare side for winterization not to keep part or flare system in design range of selected material. If you have wet streams and possibility of hydrate formation, heat tracing can be used.

Flare material should be suitable for low temperature due to JT effect of pressure reduction.

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**Brij Gupta**

Process Engineering & Project Management consultant

Brij

Flare stack is the normal venting method for the this sort of system. You can use either HP or LP venting system depending upon your system pressure etc. Burn pit is not recommended due to large surface area required for ground flares.

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