



Sydney Spencer II <sspencerii@chattanooga.gov>

hose dimensions

1 message

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For the truck side we use 18' smart hoses with acme fitting connections, on the railcar side we use 20' type 2 propane hoses with ACME fitting connections. They are 2 inch hoses with ball valves on the ends. There will be little emissions escaping. Just what is in the end of the connection, about 3 inches of 2 inch piping.

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How many hoses hooked up per transfer?
 Always the same? (1 extra for summer months?)
 2 hoses total, 1 liquid, 1 vapor; always 2

76,320	lbs/hr of butane
38,160	lbs/hr per butane skid (2 skids total)
2	transfers per hour max (due to 2 skids)
0.231	lbs of uncontrolled emissions per transfer hose disconnect (liquid)
0.00099	lbs of uncontrolled emissions per transfer hose disconnect (vapor)
2	disconnects per hose
0.465	lbs of butane emissions per transfer
0.929	lbs of butane emissions per hour max
4.070	tpy butane potential emissions (8,760 hrs/yr)

5.84 tpy VOC potential emissions combine total

4.86	butane liquid density (lbs/gal) @ 60 deg F (avg annual Chatt. Temp is 62.5 to 63.5)
0.0207	butane gas density (lbs/gal) @ 60 deg F (avg annual Chatt. Temp is 62.5 to 63.5)

How many hoses hooked up per transfer?
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 2 hoses total, 1 liquid, 1 vapor; always 2

37,800	lbs/hr of propane
37,800	lbs/hr per butane skid (1 skid total)
1	transfer per hour max (due to 1 skid)
0.0476	gal hose volume
0.201	lbs of uncontrolled emissions per transfer hose disconnect (liquid)
0.00074	lbs of uncontrolled emissions per transfer hose disconnect (vapor)
2	disconnects per hose
0.404	lbs of propane emissions per transfer
0.404	lbs per hour of propane emissions max
1.770	tpy propane potential emissions (8,760 hrs/yr)

4.23	propane liquid density (lbs/gal) @ 60 deg F
0.0155	propane gas density (lbs/gal) @ 60 deg F