



Presentation:

ASPHALT BLOWING UNIT



ASPHALT BLOWING UNIT (Asphalt Oxidation Unit)

- Asphalt blowing is an exothermal reaction, main reaction is oxidative dehydrogenation.
- The mono-/bi- cyclic aromatic hydrocarbons are transformed to condensed aromatic hydrocarbons, asphaltenes
- The paraffinic and olefinic hydrocarbons are transformed negligible
- Process variables (operating variable to ensuring the required quality of product – asphalt):
 - Temperature of the feedstock
 - Temperature of the reactor bottom
 - Amount of process air
 - Circulation



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Company

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ID. No.: 09828192

ASPHALT BLOWING UNIT

- Expected utilities:
 - Steam (MPS / LPS)
 - BFW (if steam generator is included to the technological scheme)
 - Flushing oil (LVGO should be used)
 - Fuel (fuel oil, natural gas) – for furnace
 - Process air – for furnace
 - Cooling water
 - Service water
 - Instrument air
 - electricity



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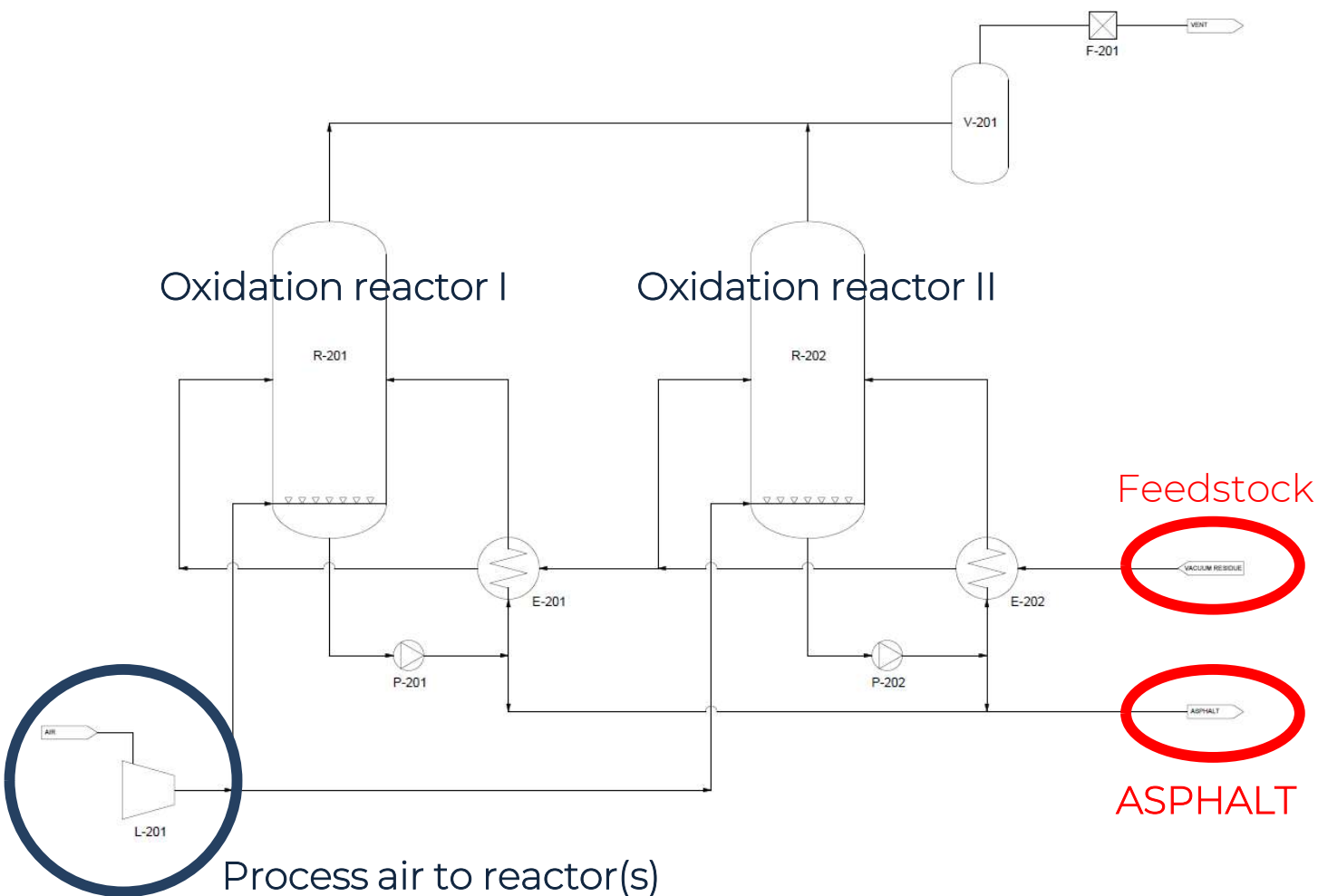
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ASPHALT BLOWING UNIT – Simplified typical PFD



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ASPHALT BLOWING UNIT – Typical Equipment List

Equipment Name	Q'ty
Oxidation reactor I	1
Oxidation reactor II	1
Off-gas separator	1
Flame arrestor	1
Vacuum residue pre-heater I	1
Vacuum residue pre-heater II	1
Circulation pump I	2
Circulation pump II	2
Air blower	1

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THANK YOU FOR YOUR ATTENTION

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