U.S. Department Of Energy
Office of River Protection

Hanford Advisory Board
Health, Safety and Environmental Protection Committee

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C-Farm Portable Exhauster Discussion

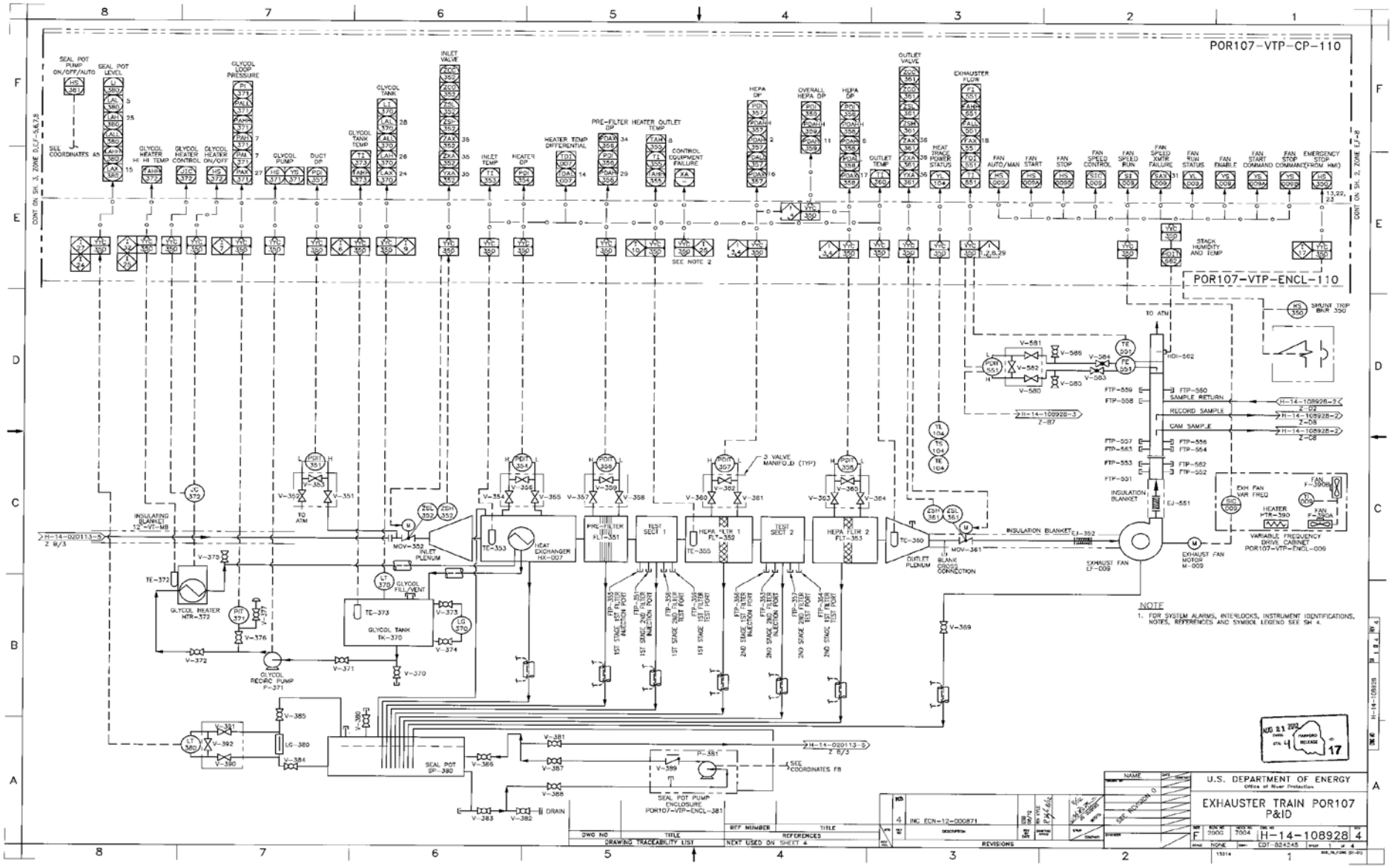
May 9, 2013

Description of Exhausters

- Three Skid Mounted Exhausters used in C-Farm Retrievals
- POR-03 500 ft^3/minute capacity
- POR-08 1,000 ft^3/minute capacity
- POR-107 3,000 ft^3/minute capacity
- POR-107 and POR-03 use a common header connected to tanks during waste disturbing activities (retrieval)
- POR-08 has its own ductwork header

C-Farm September 2011

How Does the Exhauster Work



*GROSS WEIGHT
SKID: 22,20
STACK: 880

Incidents at POR-107

- August 19, 2011, the solid state relay burned up and the circuit (energized) sending full power to the heater core
- 50/50 propylene glycol mixture boiled over and smoke/steam was observed by work crews
- The system was reviewed, the problem isolated, and the relay was replaced
- February 12, 2013 during operator training turning off and on the exhauster smoke/steam from the propylene glycol mixture boiling off was observed
- Have not been able to replicate the event of February 12, 2013
- Emergency crews responded to both events

Questions