

Danville Station Temperature Limitations Based on Coating Types
August, 2019

The recommended maximum operating temperatures on the Danville Discharge are set based on the original coatings on the mainline systems for both north and south (reverse) flow. The guidance is provided in SOP 2-2160.Coating Systems for Buried or Submerged Piping. An excerpt from the SOP on the relevant segments is shown below:

Table 1			
Recommended Maximum Operating Gas Temperatures for Compressor Station Discharges			
Station Name (Texas Eastern)	Line No.	Coating Code (see notes)	Recommended Maximum Operating Temperature (°F)
Danville (DANV-OWSV)	10	CMPD	135
Danville (TOMP-DANV)	10	CMPD	135
Danville (DANV-OWSV)	15	CHPD	170
Danville (TOMP-DANV)	15	CHPD	170
Danville (DANV-OWSV)	25	CHRE	170
Danville (TOMP-DANV)	25	CHAE	170

Notes:

1. Coating Code: Type,Grade,Manufacturer,Class
2. CMPD – Coal Tar Enamel, Modified, Pittsburgh, Primer/Enamel No. 1/Fiberglass Wrap/Kraft Paper
3. CHPD - – Coal Tar Enamel, Hot Line, Pittsburgh, Primer/Enamel No. 1/Fiberglass Wrap/Kraft Paper
4. CHRE - Coal Tar Enamel, Hot Line, Reilly, Primer/Enamel No. 1/Fiberglass Wrap/Asbestos Felt Outerwrap
5. CHAE – Coal Tar Enamel, Hot Line, Allied, Primer/Enamel No. 1/Fiberglass Wrap/Asbestos Felt Outerwrap

The temperature alarms on the compressors are set as follows:

Line Number	Temperatures (North), F	Temperatures (South/Reverse Flow), F
10	160	120
15	160	120
25	200	120

As shown above, a more conservative alarm setting is in effect for reverse flow.