Dept. 246 - SAFETY DEVICES
RELIEF VALVE, RUPTURE DISC, AND INTERLOCKS

5 chlorinators items 105 thru 109	Rupture disc, carbon, 8 inch, 20 PSIG bursting pressure @70°F. Storeroom code 51-13466.
	#1, 2, 3 and 4 chlorinator rupture disc discharges are 3" and discharge on top level.
	#5 chlorinator rupture disc discharge in 3" and discharges on 1st level, 14" above floor.
5 chlorinator jackets items 105 thru 109	80# steam, no regulator. Pressure relief valve set for 90#. Storeroom code 04-31632.
#1 still item 130	Rupture disc with vacuum support 8 inch, monel, bursting pressure 31 PSIG @72°F. Storeroom code 51-13465.
	Rupture disc discharge is 6", and is directed West above roof of lean-to, 4th level.
#2 still item 133	Rupture disc with vacuum support, 8 inch, monel, bursting pressure 31 PSIG @72°F. Storeroom code 51-13465.
	Rupture disc discharge is 4" and is directed east above roof of control room, 3rd level.
Chlorine Vaporizer Item 116	East end, top of vaporizer, pressure relief on Cl_2 side set for 50 PSI. Rupture disc burst @50PSI 100°F Model 1A.
	East end, bottom of vaporizer, mercoid pressure switch set @40PSI, (will turn off steam valve). Manual switch to turn off steam is behind S.E. panel board in control room.
~~Sparkler press 36"~~ ~~Item 145~~	~~Jacket tested for 100 PSI. 80#~~ steam ~~regulated to 20#.~~ Storeroom code for ~~pressure relief valve~~ 04-31632.
Biphenyl Head Tank Jacket Item 103	Jacket tested for 105# hydrostatic pressure. Using 80# steam regulated to 40#. Storeroom code for pressure relief valve 04-31632.
Biphenyl storage Item 102	80# steam regulated to hold tank temperature at 125°C. Storeroom code for pressure relief valve 04-31632.

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Dept. 246 - Safety Devices

Relief Valve, Rupture Disc. and Interlocks.

4 Continuous Chlorinators Items 406, 410, 414, 418	Rupture Disc. 47 Lbs. Bursting Pressure
	Chlorinators 6-9 Rupture Disc discharge at ground level directly South of Blow Tank.
	Chlorinators 6-9 has a chlorine valve interlocked to both pump and high temperature at Sparger (205°C.)
$FeCl_3$ Mix Tank Item 403	Jacketed Flame Arrestor. This contains a Relief Valve to (Steam) Jacket. Discharges at 40 psig.
Intermediate Storage	Combination vacuum-pressure vent pressure of 60z closes. Vacuum of 40z open.
4 Continuous Chlorinator Fans. Items 408, 412, 416, 420	These are interlocked to temperature. Will not start unless 120°C. in chlorinator.

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~~Preheater for stills~~
~~(new 1968)~~

~~Designed for 220 PSI, tested for 330 PSI. 2" carbon rupture disc, set for 50 PSI @650°F. (SPECIAL ORDER)~~

Chlorinator Interlocks
Item 105 thru 109

There are 2 alarms and interlocks on each chlorinator.

1. A high temperature thermocouple is in the HCl line on top of each chlorinator. Alarm is set at 160°C. Chlorine cut-off point is 175°C.

~~2. The high temperature alarm for the batch temperature in the chlorinator body reads from the 12 point recorder 29-0288 and is set for 200°C. The chlorine cut-off temperature is 205°C and reads from the temperature controller instruments.~~

2. the high temperature interlock and alarm come in together at 225°C. The temperature is read from the bottom of the chlorinator near the Cl_2 sparger, to individual ~~interlocks~~ indicators on the panel board.

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