

Athlon Solutions Bayport Texas	Date: 05/01/19 Revision: A MOC #:	Created By: DES Checked By: 0
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PSV INFORMATION	
PSV Number:	New PSV
Protected Equipment #:	T-31
Equipment Description:	Storage Tank
Equipment MAWP:	30 psig
P & ID #:	New P&ID
Relief Valve Size:	6Q8
Manufacturer:	Consolidated
Model Number:	1905QC-32
Connection Type:	150# RFF
Orifice Area:	6.380 sq in
Set Pressure:	30.0 psig
Valve Type:	Conventional

  

Sizing Cases	
Applicable?	
Yes or No	Scenario
	<u>01: Closed Outlet on Vessels</u>
No	NA, storage tank.
	<u>02: Cooling-water Failure</u>
No	NA, no cooling water in this system.
	<u>03: Top-tower Reflux Failure</u>
No	NA, storage tank.
	<u>04: Sidestream Reflux Failure</u>
No	NA, storage tank.
	<u>05: Lean-oil Failure to Absorber</u>
No	NA, storage tank.
	<u>06: Accumulation of Noncondensables</u>
No	NA, storage tank.
	<u>07: Entrance of Highly Volatile Material</u>
No	NA, storage tank.
	<u>08: Overfilling Storage or Surge Vessel</u>
No	Not considered. High level will shutdown the unloading pump.
	<u>09: Failure of Automatic Control</u>
No	NA
	<u>10: Abnormal Heat or Vapor Input</u>
No	No source of heat.
	<u>11: Split Exchanger Tube</u>
No	NA
	<u>12: Internal Explosions</u>
No	NA
	<u>13: Chemical Reaction</u>
Yes	Benzyl Chloride can decompose if contaminated.
	<u>14: Hydraulic Expansion</u>
No	The tank always has a vapor space.
	<u>15: Exterior Fire</u>
Yes	Assume fire in the area with good drainage and adequate fire protection.
	<u>16: Power Failure (steam, electric, air, or other)</u>
No	NA

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Protected Equipment #:	T-31	Model Number: 1905QC-32
Equipment Description:	Storage Tank	Connection Type: 150# RFF
Equipment MAWP:	30 psig	Orifice Area: 6.380 sq in
P & ID #:	New P&ID	Set Pressure: 30.0 psig
Relief Valve Size:	6Q8	Valve Type: Conventional
<b>Sizing Cases</b>		
Applicable?		
Yes or No	<b>Scenario</b>	
	<u>17: Inadvertent Valve Operation</u>	
No	NA	
	<u>18: Other</u>	
No	No other scenarios identified.	
<b>Notes and Recommendations</b>		
ReCon Engineering, Management, & Inspection document		Rev 1.28.6a