Table 2 - Consequence Analysis: Raffinate System with Reboiler

CONSEQUENCE SUMMARY	
RAST Version 2 Loss Event for: Distillation; Rafinatte Splitter Containing	Date: 12/1/2019
Pentane (n-):	Overfill Release
remaile (II-).	<u></u>
Explosion Summary: VCE or Building Explosion Energy, kcal VCE or Building Explosion Distance to 1 psi Overpressure, m Maximum Distance to LFL Concentration, m Blast Overpressure at Center of Occupied Building 1, psi Blast Overpressure at Center of Occupied Building 2, psi	2.4E+07 288.5 202.1 3.2 Probability of Ignition (POI) Potential Explosion Impact to Occupied Building
Distance to Severe Thermal Radiation Impact, m Rupture Explosion Energy, kcal Distance to Direct Blast Impact (10 psi), m Maximum Fragment Range, m Rupture Distance to 1 psi Overpressure, m Rupture Overpressure at Center of Occupied Building 1, psi Rupture Overpressure at Center of Occupied Building 2, psi	Probability of Explosion (POX
Incident Outcome and Consequence Summary: Impact Assessment with Personnel routinely in the immediate area	LOPA Tolerable Exceeds Threshold Frequency Factors Based Criteria Estimated Number of People
Offsite Toxic Impact based on Toxic Integration Method and 1000 m to Fence Line	Yes Impacted
Onsite Toxic Impact based on Distance to LC-50 Concentration of 43 m	NA
Outdoor Toxic Exposure Duration 600 sec	
Onsite Flash Fire Impact based on Distance to 0.5 LFL Concentration of 286 m	5
Chemical Exposure based on Dermal or Thermal Hazards and Spray Distance of 0 m $$	NA NA
Onsite Direct Blast Impact based on Distance to 10 psi of 0 m	
Onsite Thermal Radation Impact based on Distance from Fireball o	of 0 m
Occupied Building Toxic Impact Step 4	NA NA
Number of Potential Serious In Number of Potential Serious In	tcome)
Occupied Building Impact from Vapor Cloud Explosion Number of Potential Serious Impacts for Building 1: 18 people	Yes6
Number of Potential Serious Impacts for Building 2: 0 people	_