TABLE A.3
Summary Sheet for Continuing Example 2a: Risk Matrix Consequence Categorization Method (Method 1 of Chapter 3)

Scenario Number 2a	Equipment Number		Scenario Title: Hexane Storage Tank Overflow. Spill not contained by the dike		
Date:		Description		Probability	Frequency (per year)
Consequence Description/Category		Release of hexane (1,000 – 10,000 lbs.) outside the dike due to tank overflow and failure of dike. Severity Category 4			
Risk Tolerance Criteria (Category or Frequency)		Action required Tolerable			>1 × 10-3
Initiating Event (typically a frequency)		Arrival of tank truck with insufficient room in the tank due to failure of the inventory control system. Frequency based upon plant data.			1
Enabling Event or Condition				N/A	
Conditional Modifiers (if applicable)		Probability of ignition		N/A	Maria Santa
		Probability of personnel in affected area		N/A	39
		Probability of fatal injury		N/A	E 200 90
		Others		N/A	be have to
Frequency	of Unmitigate	d Consequer	nce		1
Independent Protection Layers		Operator checks level before unloading (existing) (PFD from Table 6.5)		1 × 10-1	
		Dike (existing) (PFD from Table 6.3)		1 × 10-2	2612
		SIF (to be added - see Actions)		1 × 10-2	e-main
Safeguards(non-IPLs)		BPCS level control and alarm is not an IPL as it is part of the BPCS system already credited in LI read by operator.			
Total PFD for all IPLs				1 × 10-5	数据法数
Frequency of Mitigated Consequence					1 × 10-5
Risk Tolera	nce Criteria N	/let? (Yes/No)	: Yes, with added SIF.		
Actions Rec Meet Risk T Criteria		Responsible Maintain en	th PFD of 1 × 10 ⁻² . Group/Person: Plant Technica nphasis on procedure to check l ke as an IPL (Inspection, mainte	evel as a critica	
Notes		Human action at 1 × 10 ⁻¹ since BPCS level indication is part of this IPL Add action items to action tracking database.			
			d review, PFD, P&ID, etc.):		