TABLE A.8 Summary Table for Continuing Example 2b: Fatality Frequency Method (Method 1 of Chapter 3)

Scenario Number 2b	Equipment Number		Scenario Title: Hexane Storage Tank Overflow. Spill contained by the dike		
Date:		Description		Probability	Frequency (per year)
Consequence Description/Category		Release of hexane inside the dike due to tank overflow with potential for ignition and fatality.			
Risk Tolerance Criteria (Category or Frequency)		Maximum Tolerable Risk of a Serious Fire Maximum Tolerable Risk of a Fatal Injury			<1 × 10 ⁻⁴ <1 × 10 ⁻⁵
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		0.1	\$1852 g
		Probability of personnel in affected area		0.1	
		Probability of fatal injury		0.5	Est available
		Others		N/A	
Frequency o	of Unmitigate	d Consequenc	:e	TANKART PALE	5 × 10-3
Independent Protection Layers		Operator checks level before unloading (existing) (PFD from Table 6.5)		1 × 10-1	
		SIF (to be added – see Actions)		1 × 10-2	
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 × 10-3	
Frequency of Mitigated Consequence					5 × 10-6
Risk Tolera	nce Criteria N	/let? (Yes/No):	Yes, with added SIF.		
Actions Rec Meet Risk T Criteria		Responsible	PFD of 1 × 10-2. Group/Person: Plant Technica phasis on procedure to check l		
Notes	Human action at 1 × 10-1 since BPCS level indication is part of this IPL Add action items to action tracking database.				
D-6	(links to origi	nating hazard	review, PFD, P&ID, etc.):	111	