Initiating Event Frequency	Derailment Probability	Multiple ISO Accident Probability	Release Probability		Outcome Event Frequency
			No release	9.58×10^{-1}	1.68×10^{-4} yr^{-1}
		1 car	1.17 kg/s	1.40×10^{-2}	2.46×10^{-6} yr^{-1}
		3.37×10^{-2}	18.8 kg/s	2.50×10^{-2}	4.40×10^{-6} yr^{-1}
			CR[48] of 1 ISO	3.00×10^{-3}	5.28×10^{-7} yr^{-1}
			No release	9.18×10^{-1}	1.44×10^{-4} yr^{-1}
			1.57 kg/s	2.70×10^{-2}	4.23×10^{-6} yr^{-1}
		2 cars	19.4 kg/s	4.86×10^{-2}	7.61×10^{-6} yr^{-1}
		3.00×10^{-2}	37.6 kg/s	6.25×10^{-4}	9.78×10^{-8} yr^{-1}
			CR of 1 ISO	5.98×10^{-3}	9.36×10^{-7} yr^{-1}
			CR of 2 ISOs	9.00×10^{-6}	1.41×10^{-9} yr^{-1}
			No release	8.79×10^{-1}	1.47×10^{-4} yr^{-1}
Yard accidents	Derailment		2.01 kg/s	3.91×10^{-2}	6.53×10^{-6} yr^{-1}
7.23×10^{-3} yr^{-1}	7.22×10^{-1}		20.0 kg/s	7.09×10^{-2}	1.18×10^{-5} yr^{-1}
		3 cars	40.8 kg/s	1.84×10^{-3}	3.07×10^{-7} yr^{-1}
		3.20×10^{-2}	CR of 1 ISO	8.95×10^{-3}	1.49×10^{-6} yr^{-1}
			CR of 2 ISOs	2.69×10^{-5}	4.49×10^{-9} yr^{-1}
			No release	8.42×10^{-1}	4.66×10^{-4} yr^{-1}
			2.51 kg/s	5.03×10^{-2}	2.78×10^{-5} yr^{-1}
			20.6 kg/s	9.18×10^{-2}	5.08×10^{-5} yr^{-1}
		4 cars	38.8 kg/s	3.54×10^{-3}	1.96×10^{-6} yr^{-1}
		1.06×10^{-1}	59.0 kg/s	6.11×10^{-5}	3.38×10^{-8} yr^{-1}
			CR of 1 ISO	1.19×10^{-2}	6.58×10^{-6} yr^{-1}
			CR of 2 ISOs	5.37×10^{-7}	2.97×10^{-8} yr^{-1}
			CR of 3 ISOs	1.08×10^{-7}	5.96×10^{-11} yr^{-1}

Figure 30. Event tree for yard movement for train Configuration 1 (C-1). "Outcome Event Frequency" is the product of the "Initiating Event Frequency," "Derailment Probability," "Multiple ISO Accident Probability," and "Release Probability."

[48] The abbreviation "CR" represents a catastrophic rupture where the entire (b) (4) gallons contained in the ISO is released instantaneously.