

FAILURE MODE AND EFFECTS ANALYSIS (FMEA) OF THE POTENTIAL US PORT STRIKE



SEVERITY, OCCURENCE AND DETECTION RATINGS

Failure Mode	Severity (1-10)	Occurence (1-10)	Detection (1-10)	RPN
Port Closure and Operational Halt	10	7	4	280
Supply Chain Disruptions	9	8	5	360
Inventory Shortages in Retail	8	7	6	336
Increased Shipping Costs	7	8	5	280
Economic Slowdown and Business Losses	10	6	4	240
Political and Labor Relations Fallout	8	6	3	144

RPN (RISK PRIORITY NUMBER) = SEVERITY × OCCURRENCE × DETECTION

RECOMMENDED ACTIONS

Business Contingency Planning: Businesses should expedite the rerouting of cargo, consider shipping by air, diversify their supplier base, and consider increasing safety stock for critical items.

Consumer Communication: Retailers should communicate potential delays and shortages to customers transparently, potentially offering pre-orders or alternative products to manage expectations.

Monitoring and Early Warning Systems: Implement real-time monitoring of port operations and supply chain flows to detect and address issues as they arise.