

EMERGENCY PREPARATION AND RESPONSE

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OVERVIEW

Emergency preparedness and response

- Definition
- Statistics
- Planning and implementation
 - Phases in emergency management
 - Continuous improvement

Lessons learned

• A Cayman Port experience





EMERGENCY PREPAREDNESS AND RESPONSE

What is a workplace emergency?

An unforeseen situation that threatens:

- Workers
- Customers or the public
- Disrupts or shuts down operations
- Causes physical or environmental damage



What is a workplace emergency?

Natural or Manmade

- Hurricanes
- Tornadoes
- Earthquakes
- Floods
- Chemical spills



STATISTICS

NATURAL DISASTERS

- According to Munich Re, insured losses in 2017 resulted from 710 natural disaster events
- Insured losses totaled \$135 billion, up from \$50.7 billion in 2016

World natural catastrophes by continent, 2017

(Percentage distribution)



Source: © 2018 Munich Re, Geo Risks Research, NatCatSERVICE. As of January 2018.



STATISTICS

MANMADE DISASTERS

- According to Swiss Re, insured losses in 2016 resulted from 136 manmade disaster events
- Insured losses totaled \$7.8 billion

WORLD MANMADE DISASTERS, 2016			
	No. of Incidents	Deaths	Insured Loss (\$millions)
All manmade disasters	130	5 4,014	\$7,797
Major fires, explosions	4	7 766	\$4,643
Maritime disasters	30	5 1,596	\$2,463
Aviation disasters	1:	1 384	\$248
Rail disasters (includes cableways)	1	1 318	\$87
Mining accidents	;	3 166	\$184
Misc. (terrorism, social unrest, other)	20) 684	\$173

Source: Swiss Re



PLANNING AND IMPLEMENTATION

PHASES IN EMERGENCY MANAGEMENT

- Preparedness
- Prevention
- Response
- Recovery
- Mitigation





5 STEPS IN EMERGENCY MANAGEMENT PLANNING

01

02

Establish a Team

Dependent on the facility's operation, requirements and resources

Analyse Capabilities and Hazards

Gather information on current capabilities

03

04

Vulnerability Assessment

Identify and quantify vulnerabilities in a system

Develop the Plan

Asses and plan for basic elements necessary for the successful implementation of the plan, protection of life and property



5 STEPS IN EMERGENCY MANAGEMENT PLANNING

05

Implement the Plan

Acting on recommendations made during the vulnerability analysis

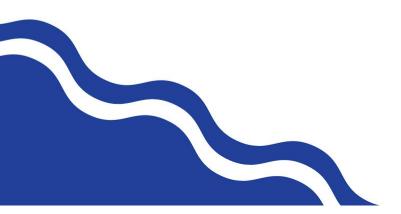


CONTINUOS REVIEW & IMPROVEMENT

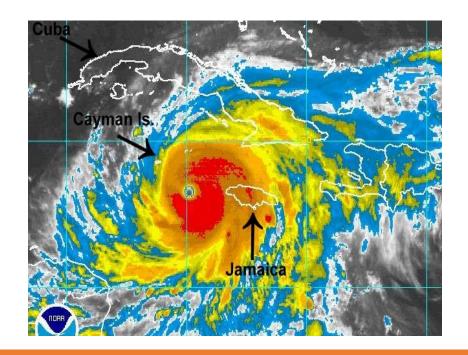
- Disaster planning should incorporate a continuous improvement process to the implementation phase.
- An ongoing evaluation of the plan should be conducted based upon evaluations, drills, and assessments of the plan when used.
- Potential problems and shortcomings of the disaster response can be identified and corrected.
- Changes in potential threats should be evaluated on an on-going basis and changes to the disaster response plan made as deemed appropriate.











LESSONS LEARNED

- Hurricane Ivan Category 4 hurricane, 150mph sustained winds, with gusts of 220mph
- Estimated \$429 million in damage sustained to the Cayman Islands

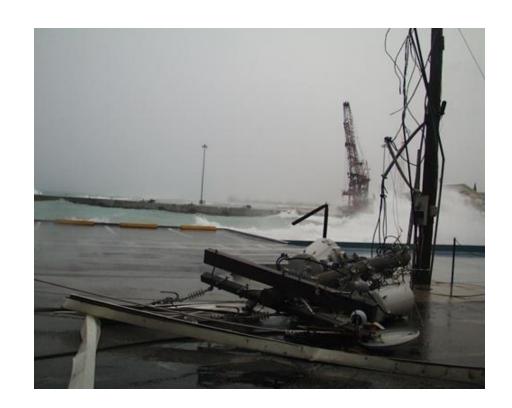


A CAYMAN PORT EXPERIENCE

- Damages to the Cayman Port estimated at \$22million
- Operations restored within 5 days after the passing of Hurricane Ivan
 - Implemented its Hurricane preparedness plan

MAIN LESSONS

- Never underestimate the probability of a catastrophe
- Be prepared







LESSONS FOR THE ISLANDS

- Hazard Management Cayman Islands (HMCI) was launched in 2007, also responsible for the management of the National Emergency Operations Centre (NEOC).
- · Development of National Hurricane Plan
- Government Agencies enhanced hurricane plans



SUMMARY

While we cannot prevent 100 percent of disasters / emergencies, we can develop emergency preparedness and response plans to mitigate their effects.

It is also important for these plans to take on a holistic approach, involving discussion with stakeholders and policy makers.



QUESTIONS?

Thank you.

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