



# **Government of Saint Lucia**

## **Saint Lucia National Risk Register Dated August 2, 2006**

*Modeled upon the Sussex Local Resilience Forum: Community Risk Register of 14th November 2005*

(The information displayed in the document is valid only at the date of publication as risks are monitored on an ongoing basis.)

## Introduction

It is important that responders identify the significant risks threatening the performance of critical functions in the event of an emergency, as this will enable them to focus resources in the right areas, and develop appropriate continuity strategies.

## Statutory Authority

Disaster Management Act No.30 of 2006

*PART II – 5. (3) (c) gather timely and authoritative information concerning the conditions and trends in the quality of the environment, both current and prospective, as these relate to the likelihood of disasters in Saint Lucia;*

## Participating Agencies:

This assessment was verified by the following agencies:

- |  |  |                                   |
|--|--|-----------------------------------|
| 1. Ministry of Agriculture, Forestry and Fisheries [Veterinary Office] | 4. Ministry of Communications, Works, Transport and Public Utilities | 6. Royal Saint Lucia Police Force |
| 2. Ministry of Health  | 5. Department of Environmental Health                                | 7. Saint Lucia Fire Service       |
| 3. Ministry of Commerce  |  | 8. Saint Lucia Met Services       |
|  |  | 9. Seismic Research Unit          |

## Methodology

The combination of past events coupled with hazard analysis coupled with a probability of a repeat event was applied by various agencies to achieve Risk Level.

<b>Risk ref</b>	<b>Hazard or threat category</b>	<b>Hazard/Threat sub category</b>	<b>Risk rating</b>	<b>Controls currently in place</b>
AH01	Animal Health	Infectious disease that can be transmitted between different animals species and humans  These diseases are often referred to as being Zoonotic. e.g. Avian Influenza, Rabies, West Nile Virus	High	<ol style="list-style-type: none"> <li>1. The Ministry of Agriculture and Ministry of Health monitor this risk on an ongoing basis.</li> <li>2. The Local Agricultural Officer identifies the local action to be taken in the event of an emergency.</li> <li>3. Fortnightly meetings of the Communicable Disease Surveillance Committee (Ministry of Health).</li> </ol>
AH02	Animal Health	Infectious disease transmitted between animals of the same species These diseases are often referred to as being Non-Zoonotic e.g. Foot & Mouth Disease, Mad Cow Disease.	High	<ol style="list-style-type: none"> <li>1. The Ministry of Agriculture monitors this risk on an ongoing basis and issue Qualitative Risk Assessments and advice.</li> <li>2. The Local Agricultural Officer identifies the local action to be taken in the event of an emergency.</li> </ol>
CD01	Civil Disturbance	Riot or serious disturbance This could be a spontaneous event or a planned disruptive protest	Medium	<ol style="list-style-type: none"> <li>1. The Royal Saint Lucia Police Force maintains appropriate response plans</li> <li>2. All agencies of NEMO support the police plans with their Contingency plans in such an event.</li> </ol>
CD02	Civil Disturbance	Riot or serious disturbance in a prison including immigration removal centers and secure training centres	Low	<ol style="list-style-type: none"> <li>1. The Royal Saint Lucia Police Force maintains appropriate response plans</li> <li>2. All agencies of NEMO support the police plans with their Contingency plans in such an event.</li> </ol>
EP01	Environmental Pollution/Infestation	Harmful release from storage facility or other site including industrial premises and laboratories, e.g. chemical, biological, radiological or nuclear.	Medium	<ol style="list-style-type: none"> <li>1. Disaster Plan &amp; Procedures for the site.</li> <li>2. Standard emergency operating procedures for the site.</li> <li>3. National Emergency Response Plans</li> </ol>
EP03	Environmental Pollution/Infestation	Harmful release during transportation [on land or at sea] e.g. fuel oil, chemical, biological, radiological or nuclear.	Medium	<ol style="list-style-type: none"> <li>1. Individual agency generic emergency plans</li> <li>2. CBRN procedures</li> <li>3. National Emergency Response Plans</li> </ol>
EP04	Environmental Pollution/Infestation	Harmful release from pipeline e.g. natural gas, ethylene, fuel, oil or untreated sewage.	Medium	<ol style="list-style-type: none"> <li>1. Major accident hazard pipelines regulations.</li> <li>2. Multi agency major emergency plan</li> <li>3. Public Health (Nuisances) Regulations No. 10 of 1978, Public Health (Sewage &amp; Disposal of Sewage and Liquid Industrial Waster Works) Regulations No. 22 of 1978.</li> </ol>
EP05	Environmental Pollution/Infestation	Illegal dumping of toxic waste/hazardous material (on land and/or at sea)	Medium	<ol style="list-style-type: none"> <li>1. The Marine Coastguard National Contingency Plan.</li> <li>2. Multi agency major emergency plan.</li> <li>3. National Emergency Response Plans</li> </ol>

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H01	Fire/Explosion	At a gas terminal as well as LPG and other gas onshore feedstock pipeline and flammable gas storage sites	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National Emergency Response Plans
H04	Fire/Explosion	At a fuel distribution site and tank storage of flammable or toxic liquids	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National Emergency Response Plans
HL07	Fire/Explosion	At Industrial Site	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National Emergency Response Plans
HL12	Fire/Explosion	Crash involving transport of fuel/explosive chemicals	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National Emergency Response Plans
HL22	Fire/Explosion	Collapse of Building (following fire/explosive damage)	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National Emergency Response Plans
HL23	Fire/Explosion	Collapse of Building (following earthquake)	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National Emergency Response Plans
IA01	Industrial Action/Staff Shortage	Disruption of emergency response cover e.g. industrial dispute, widespread illness affecting ambulance, fire, police, coastguard, health service	Medium	1. Agency contingency (business continuity) plans 2. National Emergency Response Plans
IA02	Industrial Action/Staff Shortage	Port blockade/closure e.g. industrial dispute, widespread illness	Low	Contingency plans to manage this risk are under development
IA03	Industrial Action/Staff Shortage	Withdrawal of labour with Prison Service e.g. industrial dispute, widespread illness	Low	1. HM Prison Service maintains good industrial relations to minimize this risk 2. Borderlais contingency plan 3. National Emergency Response Plans
II01	International Incident	War (Internal)	Low	1. Multi agency contingency plans
II02	International Incident	War (External)	Low	1. Multi agency contingency plans
II03	International Incident	Humanitarian crisis overseas e.g. resulting in large scale immigration to Saint Lucia or aid requirement	Medium	1. National Emergency Response Plans in particular the Mass Migratory Flow Plan.
II04	International Incident	Humanitarian crisis overseas (Casualties) e.g. resulting in large scale casualty influx to Saint Lucia	Low	1. National Emergency Response Plans in particular the Mass Migratory Flow Plan.

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PH01	Public Health	Pandemic Influenza [Spanish, Avian]	Very High	<ol style="list-style-type: none"> <li>1. The Ministry of Health and the Ministry of Agriculture monitor this risk nationally and provide advice regarding the impact and likelihood of an event occurring.</li> <li>2. A National Flu Pandemic Plan has been developed and is about to be presented to the Cabinet of Ministers.</li> </ol>
PH02	Public Health	Epidemic [Seasonal Flu, Severe Acute Respiratory Syndrome [SARS], Dengue Fever, Leptospirosis, Conjunctivitis [Red Eye], etc.]	High	<ol style="list-style-type: none"> <li>1. Monitor outbreak plan [Ministry and Health Centre]</li> <li>2. Ministry of Health Surveillance activity</li> </ol>
PH03	Public Health	Localise outbreak of Food borne illness or communicable disease e.g. Ecoli, Salmonella, Legionella, Norwalk virus infection, Meningitis, Mumps, in hospital, school, prison	High	<ol style="list-style-type: none"> <li>1. General Practitioners monitoring occurrences</li> <li>2. Annual National Vaccination Programme</li> <li>3. Major outbreak plan</li> <li>4. Ministry of Health Surveillance activity</li> <li>5. Communicable and Notifiable Diseases, Regulations No. 12 of 1978.</li> </ol>
PH04	Public Health	Mass fatalities by accidental poisoning or suffocation during transportation (at sea) e.g. carbon monoxide release within contained (ship) environment	Low	<ol style="list-style-type: none"> <li>1. Marine Coastguard incident procedures</li> <li>2. SLASPA Response Plans</li> <li>3. National Response Plans</li> </ol>
PH05	Public Health	Contamination of water supply e.g. industrial accident, malicious act at water treatment works	Medium	<ol style="list-style-type: none"> <li>1. Water company contingency plan to maintain supply</li> </ol>
PH06	Public Health	Food product contamination e.g. Beef infection with BSE, industrial accident, malicious act	Low	No specific plans have been developed to manage this risk. The likelihood of occurrences will be monitored by the Ministry of Health and action taken as necessary.
PS01	Public Safety	Hostage/siege incident	Low	<ol style="list-style-type: none"> <li>1. Major crime plan</li> <li>2. Multi agency contingency plans</li> </ol>
PS02	Public Safety	Indiscriminate killings/serious injury by individual(s)	Low	Major crime plan
PS03	Public Safety	Dangerous person at large e.g. escaped violent prisoner/suspect	Low	Normal police operating procedures

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PS04	Public Safety	Evacuation of neighbouring counties e.g. influx of people/vehicles into Saint Lucia	Low	National and Community evacuation plans
PS05	Public Safety	Safety at Festivals and Mass Gatherings e.g. Large scale outdoor events (Jazz Festival, Calypso Finals etc.)	Medium	<ol style="list-style-type: none"> <li>1. GOSL Guidelines on Mass Events</li> <li>2. Event organizers contingency plan</li> <li>3. Licensing conditions</li> <li>4. Site emergency plan</li> <li>5. EMS response procedures</li> </ol>
PS06	Public Safety	Safety at Sport and Entertainment Venues e.g. Large scale indoor/outdoor events (Beausejour Cricket Grounds, Gaiety entertainment venue etc.)	Medium	<ol style="list-style-type: none"> <li>1. GOSL Guidelines on Mass Events</li> <li>2. Event organizers contingency plan</li> <li>3. Licensing conditions</li> <li>4. Site emergency plan</li> <li>5. EMS response procedures</li> </ol>
SD01	Supply Disruption / Failure	Fuel shortage Industrial dispute, targeted disruptive protest, overseas supply failure/refusal	Medium	<ol style="list-style-type: none"> <li>1. The Ministry of Commerce monitors this risk nationally and provide advice regarding the impact and likelihood of a shortage occurring.</li> <li>2. The Saint Lucia Emergency Response Plan identifies the emergency services as priority fuel consumers.</li> </ol>
SD03	Supply Disruption/ Failure	Electricity	Low	<ol style="list-style-type: none"> <li>1. Electricity company contingency plans to maintain supply</li> </ol>
SD05	Supply Disruption/ Failure	Communication systems e.g. telephone, mobile phones, internet	Medium	<ol style="list-style-type: none"> <li>1. Telecom company contingency plans to maintain service</li> </ol>
SD06	Supply Disruption/ Failure	Retail Supplies e.g. Food and other essential supplies	High	<ol style="list-style-type: none"> <li>1. Police operating procedures</li> <li>2. Ministry of Commerce contingency plans to maintain supply</li> <li>3. Supply company contingency plans to maintain supply</li> </ol>
SE01	Structural Emergency	Collapse of building (e.g. due to land movement or fire/explosion)	Low	<ol style="list-style-type: none"> <li>1. Site specific local authority emergency plans</li> <li>2. Fire service operating procedures</li> <li>3. EMS operating procedures</li> </ol>
SE02	Structural Emergency	Collapse of bridge	Low	<ol style="list-style-type: none"> <li>1. Multi agency emergency response plans</li> <li>2. Traffic Department redirection plans / Strategic route diversion plans</li> <li>3. Traffic enforcement and Emergency response plan (to maintain transport routes)</li> <li>4. Government Information Service Communications Plan</li> </ol>

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SE03	Structural Emergency	Collapse of road tunnel	Low	<ol style="list-style-type: none"> <li>1. Multi agency emergency response plans</li> <li>2. Traffic Department redirection plans / Strategic route diversion plans</li> <li>3. Traffic enforcement and Emergency response plan (to maintain transport routes)</li> <li>4. Government Information Service Communications Plan</li> </ol>
SE04	Structural Emergency	Major reservoir dam failure caused by internal erosion or overtopping	Medium	<ol style="list-style-type: none"> <li>1. Water and Sewerage Company normal operating procedures (reservoir damage inspections)</li> </ol>
SW01	Severe Weather	Hurricane/high winds	Very High	<ol style="list-style-type: none"> <li>1. Hurricane Response Plan</li> <li>2. Company Disaster Plans</li> </ol>
SW02	Severe Weather	Coastal flooding Major sea surge, gale force winds, heavy rainfall, many defences, overtopped or failing. Combined tidal and fluvial event.	Very High	<ol style="list-style-type: none"> <li>1. The Saint Lucia Met Service monitors weather conditions.</li> <li>2. The flood warning is issued by the Met Service to members of the public living in areas considered at risk.</li> <li>3. In the event of major flooding multi agency response plans are actioned to minimize damage.</li> </ol>
SW03	Severe Weather	Flooding of rivers, streams A sustained period of heavy rainfall extended over two weeks, resulting in steadily rising river levels over region.	Very High	<ol style="list-style-type: none"> <li>1. The Saint Lucia Met Service monitors weather conditions.</li> <li>2. Flood Mitigation works around the island are managed by MoW.</li> <li>3. An annual river desilting is done by MoW.</li> <li>4. The flood warning is issued by the Met Service to members of the public living in areas considered at risk.</li> <li>5. In the event of major flooding multi agency response plans are actioned to minimize damage.</li> </ol>
SW04	Severe Weather	Localised fluvial/pluvial flooding (flash flooding)	Medium	<ol style="list-style-type: none"> <li>1. Flood warning system</li> <li>2. Emergency response procedures</li> </ol>
SW05	Severe Weather	Extreme High Temperature	Low	<ol style="list-style-type: none"> <li>1. Meteorological Office [PROPOSED] High Temperature Alert</li> <li>2. Multi agency contingency plans</li> </ol>

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SW06	Severe Weather	Drought	High	1. Draft National Drought Plan 2. Water Companies Contingency Plans
TE**	Terrorism	Acts of Terrorism	<b>** Given the sensitivity of the information supporting these risk assessments and the potential for use by adversaries, further details regarding action being taken to control the likelihood of this risk will not be made available in this document.</b>	
TR01	Transport	Aircraft crash	Medium	1. Air crash emergency plan 2. Airport specific emergency procedures 3. National emergency response plans
TR02	Transport	Sinking of vessels in/near Saint Lucia waters	Low	1. Marine Search and Rescue response plans 2. National emergency response plan
TR03	Transport	Collision involving vessels in/near Saint Lucia Waters	Low	1. Marine Search and Rescue response plans 2. National emergency response plan 3. Inspections of vessels and certification of vessel operators/skippers
TR04	Transport	Major crash on road network	High	1. Mass Causality plans 2. Strategic route diversion plans 3. Hospital Response Plan
TR05	Transport	Incident in road tunnel	Medium	1. Mass Causality plans 2. Strategic route diversion plans 3. Hospital Response Plans 4. Site specific plans [e.g. Millennium tunnel plan]
TR06	Transport	Crash involving transport of hazardous chemicals	Medium	1. Fire service tactical plans 2. Fire service procedural documents 3. National HazMat Plan
TR07	Transport	Crash involving transport of radioactive materials	Low	1. Fire service tactical plans 2. Fire service procedural documents 3. National HazMat Plan
GH1	Geohazard: Earthquake	Ground vibration, liquefaction and ground rupture (unlikely for Saint Lucia).  Secondary effects, common to a number of other hazards already listed. These would include such things as fires, landslides etc., which may result due to the ground vibration effects.	Medium	1. The Seismic Research Unit monitors this risk on an ongoing basis. 2. National Earthquake Plan

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Risk ref	Hazard or threat category	Hazard/Threat sub category	Risk rating	Controls currently in place
GH2	Geohazard: Volcanic Eruption	Pyroclastic flows, surges, ashfall, mudflows for the volcanic threat [secondary effects such as landslides, the pyroclastic flows and surges would actually cause damage through various mechanisms such as their physical impact, heat (so therefore fires) etc.]	Low	<ol style="list-style-type: none"> <li>1. The Seismic Research Unit monitors this risk on an ongoing basis.</li> <li>2. National Volcanic Response Plan</li> <li>3. National Evacuation Plans</li> <li>4. Scientific Supplement to the Volcanic Hazard Assessment for Saint Lucia, Lesser Antilles</li> <li>5. Volcanic Hazard Assessment for Saint Lucia, Lesser Antilles</li> </ol>
GH3	Geohazard: Tsunami	The tsunami threat is mainly from inundation/flooding of coastal/low-lying areas close to the coast. The physical impact of the water will destroy buildings and other infrastructure but the main threat is simply the fact that the water level will rise and drown everything.	Low	<ol style="list-style-type: none"> <li>1. In its role as interim warning centre, the Pacific Tsunami Warning Centre in consultation with the regional and national centres, will prepare a draft Communications Plan for the Caribbean by March 15th 2006.</li> </ol>

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