

DRAFT FEDERATION OF ST. KITTS AND NEVIS NATIONAL EVACUATION PLAN

OCTOBER 2014

Based on the CDEMA Model prepared by

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European Union

Government of the Federation of St. Kitts and Nevis
Federation of St. Kitts and Nevis National Evacuation Plan

Document of the Federation of St. Kitts and Nevis National Disaster Plan

Modeled upon the CDEMA Model National Evacuation Plan

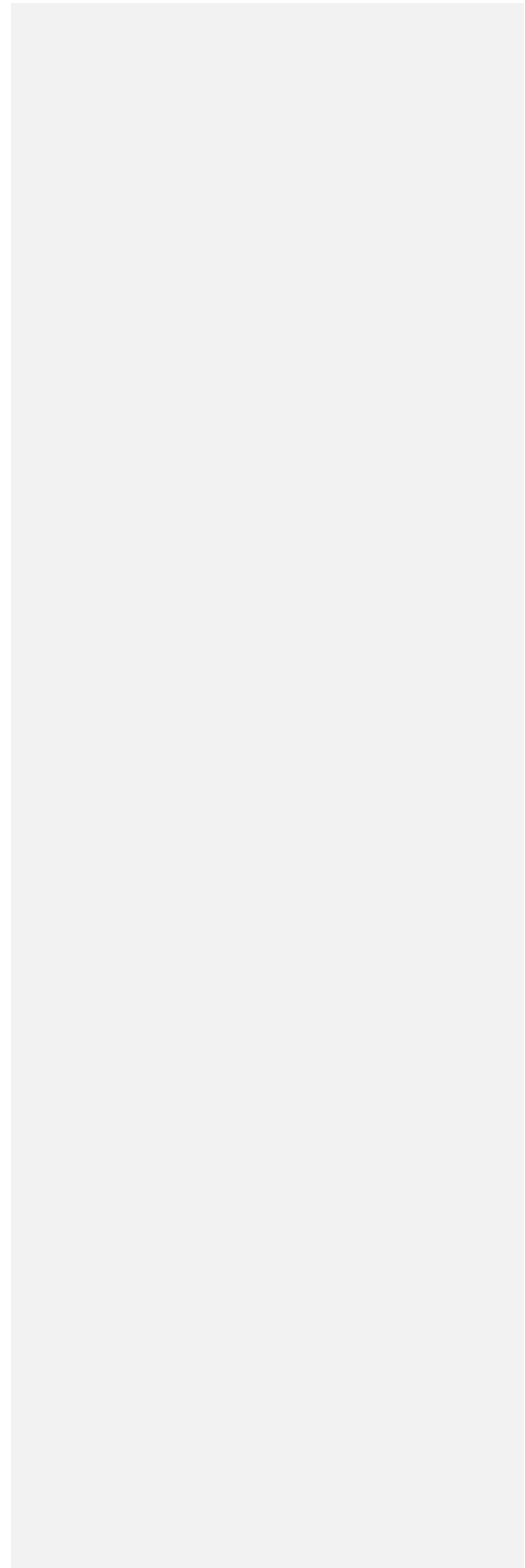
The plan consists of the Preliminaries and eight (8) sections.

Signature (Prime Minister)

Date

Signature (Permanent Secretary, Ministry of Homeland Security)

Date



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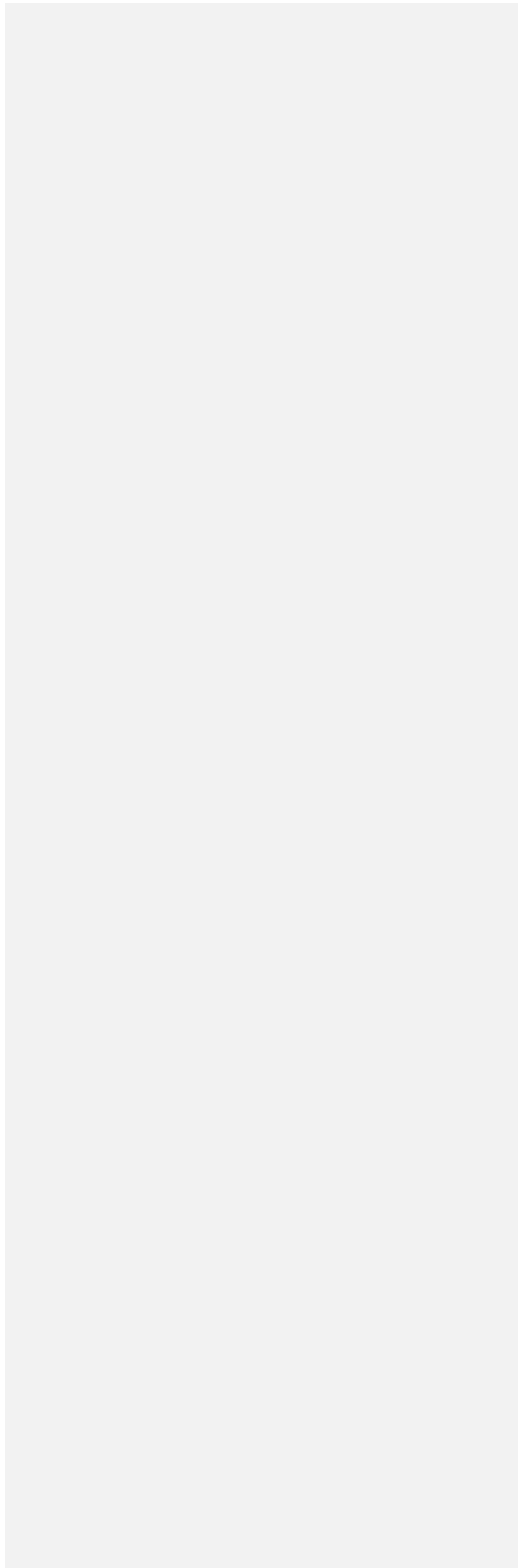
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Preliminaries

Foreword

The Federation of St. Kitts and Nevis is faced with natural, technological and manmade hazards that may necessitate an evacuation. Evacuation is a response strategy that, when appropriately used, has the potential to significantly reduce injury and save lives. However, planning and executing an evacuation require significant input from a multitude of agencies across all sectors, in particular the Government. This plan is guided by the National Evacuation Policy and works within existing regulatory and institutional frameworks, building on emergency management protocols and procedures already in place, to ensure that scarce resources are efficiently utilized. The Government pledges the resources required to support the continued development and implementation of this National Evacuation Plan.

Signature (*Prime Minister*)

Date

Executive summary

The Federation of St. Kitts and Nevis National Evacuation Plan is based on the model National Evacuation Plan (2014) developed by CDEMA, and is in accordance with the [CDEMA Model/Country] Evacuation Policy (*insert relevant document date*).

The National Evacuation Plan is designed to provide for the safe, organised and efficient evacuation of persons from an area(s) of risk to one of relative safety, whether at a local, district or national level. It is an all hazard plan based on the comprehensive approach to emergency management. The plan should be activated when the threat of a hazard or the impact of an incident requires evacuation to protect life and reduce injury.

The Plan is structured around existing legal and institutional frameworks for emergency management, and forms part of the National Disaster Plan (NDP). Once activated, it is assumed that other relevant sections and plans of the NDP are also activated. It considers small scale evacuations where first responders operate at a local level without NEOC (in St. Kitts)/EOC (in Nevis) activation, as well as larger scale evacuations where partial or full activation of the NEOC/EOC is warranted, and regional assistance may be required.

Hazards for which an evacuation may be required are identified. The Plan acknowledges that there will be scenarios where evacuation is not a feasible response action to reduce loss of life, and shelter in place may be a preferred option. This may include emergencies where there is little if any pre-warning time, and time to put evacuation arrangements into place in advance of an emergency may be too limited.

There are five stages in the evacuation process. These are:

- decision to evacuate
- evacuation warning
- evacuation
- shelter
- return

These will be preceded by evacuation policy and plan development. Return will be to the area evacuated if this can be made habitable in the short term. Otherwise longer term accommodation requirements are to be met.

The Plan emphasizes the role of responders at a local or community level, as this is significant whatever the scale of the evacuation required. Community and District Evacuation Plans are contained in Appendix 1 to the Plan, and will be activated for both community and national scale evacuations. Community and District Evacuation Plans contain the following hazard specific information for those communities:

- potential impact area(s)
- number of people in the potential impact area(s)
- special needs populations affected
- critical facilities affected
- potential evacuation routes
- community infrastructure and resources available
- Assembly Points
- safer places and temporary shelters

The national scale response is required for larger evacuations, and is coordinated by the NEOC/EOC which is activated for this purpose. Small scale evacuations may be authorized by first response agencies, but larger evacuations requiring activation of the NEOC/EOC are authorized by the Prime Minister.

Evacuation planning and preparation including resource requirements are provided for the following:

- Risk assessment
- Evacuation plans for special needs facilities, commercial enterprises, tourism interests and communities
- Public education and awareness

For evacuation operations, procedures and resource requirements for the following are detailed:

- Decision to evacuate
- Evacuation watches and warnings
- Communications
- Volunteer management
- Evacuation traffic control and monitoring
- Assembly points management
- Transportation management
- Evacuation response to events without warning
- Assistance required by special needs populations
- Animal evacuations
- Shelter management
- Places of last resort
- Evacuation zone access control and security
- Return, and
- Public assistance.

An evacuation operations checklist is provided.

The plan is to be reviewed annually and after an evacuation debrief.

Name of the plan

Federation of St. Kitts and Nevis National Evacuation Plan

Signature page

The Federation of St. Kitts and Nevis National Evacuation Plan has been approved by and distributed to the following agencies:

Agency	Head of Agency	Signature	Date

It is also available on the following website[s]:

- www.nema.kn
- www.nevisdm.com

The NDMD has also set up a Web app:

- <http://ndmd.mobapp.at>

Record of reviews and updates

The record of updates and reviews of the Federation of St. Kitts and Nevis National Evacuation Plan (inclusive of Appendices) is provided below.

Change #	Date of Change	Entered By	Summary of Changes

Acronyms and abbreviations

BB	Black Berry
CCTV	Closed Circuit Television
CDEMA	Caribbean Disaster Emergency Management Agency (formerly Caribbean Disaster Emergency Response Agency, CDERA)
CDM	Comprehensive Disaster Management
CEOC	Community Emergency Operations Centres
DEC	District Emergency Committee
DEOC	District Emergency Operations Centre
DMC	Disaster Management Coordinator
DRM	Disaster Risk Management
DRR	Disaster Risk Reduction
EMS	Emergency Medical Services
EOC	Emergency Operations Centre (Nevis)
ICS	Incident Command System
MOU	Memorandum of Understanding
NDC	National Disaster Coordinator
NDE	National Disaster Executive
NEO	National Emergency Organisation
NDMD	Nevis Disaster Management Department
NDP	National Disaster Plan
NEMA	National Emergency Management Agency
NEOC	National Emergency Operations Centre (St. Kitts)
NGO	Non-Governmental Organisation
PEA	Public Education and Awareness
PS	Participating State
SMS	Short message service
SOP	Standard Operating Procedure
SRCC	Sub-Regional Coordination Centre

Glossary of terms

The following terms should be interpreted as provided below:

Bushfire is a fire that burns in grass, bush or woodland and can threaten life, property and the environment (<http://esa.act.gov.au/community-information/bushfires/what-is-a-bushfire/>).

Comprehensive Disaster Management is the management of all hazards through all phases of the disaster management cycle - prevention and mitigation, preparedness, response, recovery and rehabilitation - by all peoples - public and private sectors, all segments of civil society and the general population in hazard prone areas. CDM involves risk reduction and management and integration of vulnerability assessment into the development planning process (CDERA, in Chase, V., 2011)

Contraflow strategies involve the reversal of direction of normal traffic flow on a route, to increase the capacity of the route to accommodate outbound traffic.

Controlling Agency or Competent Authority is the agency, service, organization or authority with legislative responsibility for control of the incident (Western Australia State Emergency Management Committee, 2010).

Critical facilities are the primary physical structures, technical facilities and systems which are socially, economically or operationally essential to the functioning of a society or community, both in routine circumstances and in the extreme circumstances of an emergency. They are elements of the infrastructure that support essential services in a society, including such things as transport systems, air and sea ports, electricity, water and communications systems, hospitals and health clinics, and centres for fire, police and public administration services (UNISDR, 2009).

Director heads the Nevis Disaster Management Department (NDMD) in Nevis.

Disaster is a sudden, calamitous event that causes serious disruption of the functioning of a community or a society causing widespread human, material, socioeconomic and/or environmental losses which exceed the ability of the affected community or society to cope using its own level of resources (UNISDR, 2009).

Disaster Risk Management (DRM) is the systematic process of using administrative directives, organizations, and operational skills and capacities to implement strategies, policies and improved coping capacities in order to lessen the adverse impacts of hazards and the possibility of disaster. DRM aims to avoid, lessen or transfer the adverse effects of hazards through activities and measures for prevention, mitigation and preparedness (UNISDR, 2009).

Disaster Risk Reduction (DRR) is the concept and practice of reducing disaster risks through systematic efforts to analyse and manage the causal factors of disasters, including through reduced exposure to hazards, lessened vulnerability of people and property, wise management of land and the environment, and improved preparedness for adverse events (UNISDR, 2009).

Emergency Operations Centre (EOC) is established in Nevis to address pre and post hazard impacts, to provide centralized coordination and control of emergency/disaster response and relief operations on a 24 hour-per-day basis if necessary. The Premier of Nevis will direct disaster operations through the EOC. The EOC has three functional areas, 1. Executive, 2. Operations and 3. Public Information and Education.

Early warning system is the set of capacities needed to generate and disseminate timely and meaningful warning information to enable individuals, communities and organizations threatened by a hazard to prepare and to act appropriately and in sufficient time to reduce the possibility of harm or loss. This

encompasses the range of factors necessary to achieve effective responses to warnings. A people-centred early warning system necessarily comprises four key elements: knowledge of the risks; monitoring, analysis and forecasting of the hazards; communication or dissemination of alerts and warnings; and local capabilities to respond to the warnings received (UNISDR, 2009).

Earthquake is a sudden release of energy in the earth's crust or upper mantle, usually caused by movement along a fault plane or by volcanic activity and resulting in generation of seismic waves which can be destructive (Collins English Dictionary - Complete and Unabridged, 2003).

Evacuation is a response strategy which may be used to mitigate the effects of an emergency or disaster on a community. It involves the movement of people to a safer location, whether in response to a threat of a hazard, or to a disaster. It is usually considered to include the return of the affected community (Emergency Management Australia, 2005).

- **Immediate Evacuation** is evacuation in response to a hazard impact (such as hazardous material incidents, plane crash and earthquake) that forces immediate action. The incident allows little or no warning and limited preparation time (Emergency Management Australia, 2005). Flood and tsunami may require immediate evacuation.
- **Pre-warned Evacuation** is evacuation in response to an event (such as cyclone or storm surge) that provides adequate warning and does not unduly limit preparation time (Emergency Management Australia). Pre-warned evacuation may be possible for flood and tsunami disasters.
- **Voluntary or Precautionary Evacuation** is called when there is a possible threat to life and property. This targets persons most at risk (e.g. in locations vulnerable to storm surge or high winds, persons with special needs or on offshore or coastal islands), and persons are not obligated to evacuate. Typically no special transportation or traffic management arrangements are made to facilitate voluntary or precautionary evacuation.
- **Mandatory Evacuation** is called when severe threat to life and property is imminent. Authorities encourage persons to move, and ingress into the area being evacuated is limited. Evacuation transportation plans are put into effect. Emergency services (police, fire, EMS) within the evacuation area will cease until the threat has passed. Officials may go door to door advising of the risk, and may use force if required to evacuate persons out of the evacuation zone if it has been declared a disaster area by the Governor.
- **Partial Evacuation** is when only a portion of the population within an area is asked to evacuate.
- **Shadow Evacuation** occurs when individuals leave an area without being told to do so.

Evacuation Watch is called when there is a possibility that an evacuation is necessary. It prepares the community or affected area by providing a lead time and advising preparatory actions. Evacuation may be warranted within a specified time frame, usually a number of hours (State of Alaska, 2012).

Evacuation Warning is called when there is an immediate threat and a suggested evacuation is imminent or immediate. Residents are advised to evacuate and not return until an all clear is given (State of Alaska, 2012).

Federation is the twin island state of St. Kitts and Nevis.

Flood is a general and temporary condition of partial or complete inundation of normally dry land areas from overflow of inland or tidal waters from the unusual and rapid accumulation or runoff of surface waters from any source (<http://www.ga.gov.au/scientific-topics/hazards/flood/basics/what>).

Hazard is a dangerous phenomenon, substance, human activity or condition that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic

disruption, or environmental damage. The hazards of concern to disaster risk reduction as stated in footnote 3 of the Hyogo Framework are "... hazards of natural origin and related environmental and technological hazards and risks." Such hazards arise from a variety of geological, meteorological, hydrological, oceanic, biological, and technological sources, sometimes acting in combination. In technical settings, hazards are described quantitatively by the likely frequency of occurrence of different intensities for different areas, as determined from historical data or scientific analysis (UNISDR, 2009).

Hurricane is a tropical cyclone with sustained winds that have reached speeds of 74 mph or higher. (<http://www.weather.com/outlook/weather-news/hurricanes/articles/hurricane-what-is-a-hurricane> 2010-05-24). A **tropical cyclone** is a rapidly rotating storm system characterized by a low-pressure center, strong winds, and a spiral arrangement of thunderstorms that produce heavy rain (http://en.wikipedia.org/wiki/Tropical_cyclone).

Incident Command System (ICS) is a standardized, on-scene, all-hazards incident management approach that allows for the integration of facilities, equipment, personnel, procedures and communications operating within a common organizational structure; enables a coordinated response among various jurisdictions and functional agencies, both public and private; and establishes common processes for planning and managing resources. ICS is typically structured to facilitate activities in five major functional areas: Command, Operations, Planning, Logistics and Finance/Administration. All of the functional areas may or may not be used based on the incident needs (FEMA, 2012).

Mitigation is the lessening or limitation of the adverse impacts of hazards and related disasters. The adverse impacts of hazards often cannot be prevented fully, but their scale or severity can be substantially lessened by various strategies and actions. Mitigation measures encompass engineering techniques and hazard-resistant construction as well as improved environmental policies and public awareness (UNISDR, 2009).

National Emergency Organisation (NEO) is the term used to refer to all participants in national disaster management efforts, for the purpose of attending to the legal, institutional and operational aspects of disaster prevention and mitigation, preparedness and response and recovery and rehabilitation. The NEO is headed by the Prime Minister.

National Emergency Management Agency (NEMA) is the State agency with focal responsibility for disaster management in St. Kitts. It is headed by the National Disaster Coordinator (NDC).

National Disaster Committee is the senior disaster planning body in St. Kitts-Nevis. All other committees, sub committees and groups are subordinate to the National Disaster Committee. The Prime Minister is the Chairperson of the National Disaster Committee which meets on a yearly basis to approve disaster policy matters.

National Disaster Coordinator (NDC) heads the National Emergency Management Agency (NEMA).

Nevis Disaster Management Department (NDMD) is a Department of the Nevis Island Administration with focal responsibility for disaster management in Nevis. It is headed by the Director.

National Emergency Organisation (NEO) is the term used to refer to all participants in national disaster management efforts, whether Government, Non-Government Organizations (NGO's), Private Voluntary Organizations (PVO's) or Volunteers, across the Federation of St. Kitts and Nevis.

National Emergency Operations Centre (NEOC) is established in St. Kitts in response to an emergency/disaster to provide centralized coordination and control of emergency/disaster response and relief operations on a 24 hour-per-day basis if necessary. The Prime Minister will direct disaster operations through the NEOC. The NEOC has three functional areas, 1. Executive, 2. Operations and 3. Public Information and Education (NEOC SOPs).

Pandemic is an epidemic occurring worldwide, or over a very wide area, crossing international boundaries and usually affecting a large number of people (Last, 2001).

Risk is the combination of the probability of an event and its negative consequences (UNISDR, 2009).

Risk assessment is a methodology to determine the nature and extent of risk by analysing potential hazards and evaluating existing conditions of vulnerability that together could potentially harm exposed people, property, services, livelihoods and the environment on which they depend. Risk assessments (and associated risk mapping) include: a review of the technical characteristics of hazards such as their location, intensity, frequency and probability; the analysis of exposure and vulnerability including the physical social, health, economic and environmental dimensions; and the evaluation of the effectiveness of prevailing and alternative coping capacities in respect to likely risk scenarios. This series of activities is sometimes known as a risk analysis process (UNISDR, 2009).

Safer Place is a nearby location where members of the community can relocate or evacuate to quickly that is safer than the location being threatened by the hazard (Western Australia State Emergency Management Committee, 2010). It is an area that can be used to temporarily hold persons removed from the evacuation zone, so that transportation can return to remove additional persons from within the evacuation zone. It is not a shelter, and is not typically equipped to accommodate persons for long periods.

Shelter-in-Place is a response action that comprises remaining in a location, usually indoors, while taking precautions to minimize exposure to the threat. Situations that might require Sheltering in Place to be implemented include:

- Severe storms;
- A public disturbance, such as a demonstration that has escalated to a violent level;
- Explosions, whether intentional or accidental; and
- Chemical or biological contaminants released accidentally or intentionally into the air.

Special Facilities include facilities which house or serve populations that cannot care for themselves during emergency situations and/or require unique support services. Such facilities include:

- Schools and day care centers, where students require supervision to ensure their safety.
- Hospitals and nursing homes, where patients need specialized health care personnel and equipment to maintain their health.
- Correctional facilities, where offenders require security to keep them in custody.

Special Needs Populations may include individuals in need of additional response assistance, individuals with disabilities, individuals who live in institutionalised settings, elderly individuals, children, people from diverse cultures who have limited official language proficiency, and those who lack transportation.

Tsunami is a series of waves of extremely long wave length and long period generated in a body of water by an impulsive disturbance that vertically displaces the water (<http://www.calema.ca.gov/PlanningandPreparedness/Pages/Tsunami-Science.aspx>); a large sea wave caused by an earthquake, landslide or other disturbance under the ocean. (<http://www.yourdictionary.com/tsunami>).

Visitor Population comprises individuals visiting or staying in a place outside their usual place of residence. Visitor population includes business and leisure travelers present in the jurisdiction, whether for single day or overnight stays.

Volcanic eruptions happen when lava and gas are discharged from a volcanic vent. (<https://www.ifrc.org/en/what-we-do/disaster-management/about-disasters/definition-of-hazard/volcanic-eruptions/>). Volcanoes are described as active (in eruption), dormant (not erupting at the present time), or extinct (having ceased eruption; no longer active). Some volcanoes explode. Others are slow-flowing fountains of lava, which is hot fluid rock (<http://www.factmonster.com/ipka/A0769041.html>).

Vulnerability refers to the characteristics and circumstances of a community, system or asset that make it susceptible to the damaging effects of a hazard. There are many aspects of vulnerability arising from various physical, social, economic, and environmental factors. Examples may include poor design and construction of buildings, inadequate protection of assets, lack of public information and awareness, limited official recognition of risks and preparedness measures, and disregard for wise environmental management. Vulnerability varies significantly within a community and over time (UNISDR, 2009).

Waterspouts can be fair weather waterspouts or tornadic waterspouts. **Tornadic waterspouts** are tornadoes that form over water, or move from land to water. They have the same characteristics as a land tornado. They are associated with severe thunderstorms, and are often accompanied by high winds and seas, large hail, and frequent dangerous lightning. **Fair weather waterspouts** usually form along the dark flat base of a line of developing cumulus clouds. This type of waterspout is generally not associated with thunderstorms. While tornadic waterspouts develop downward in a thunderstorm, a fair weather waterspout develops on the surface of the water and works its way upward. By the time the funnel is visible, a fair weather waterspout is near maturity. Fair weather waterspouts form in light wind conditions so they normally move very little. (<http://oceanservice.noaa.gov/facts/waterspout.html>).

Section 1: Introduction

1.1 The National Emergency Organisation (NEO) and the National Disaster Plan (NDP)

The National Disaster Management Act Chap 19.06 establishes a body corporate to be known as the National Disaster Management Agency, comprising a Board of Directors consisting of representatives from the islands of St. Kitts and Nevis, appointed by the Prime Minister. The Minister responsible for National Disaster shall be the President of the Agency. The Act further provides for appointment of an Administrator of the Agency, who serves as secretary to the Board and is responsible to the Chairperson of the Board. A National Disaster Management Council chaired by the Prime Minister, includes Cabinet Members, Nevis Island Premier, Cabinet Secretary and the Director General of the Agency, who serves as Council Secretary. The Council is advised by a National Disaster Advisory Committee, members of which are appointed by the Prime Minister on the recommendation of the Board.

In practice, the National Emergency Organisation¹ (NEO) structure differs from that prescribed in the National Disaster Management Act. The NEO is described in the St. Kitts-Nevis National Disaster Plan (NDP) (revised May 2013). It comprises:

- a) The National Disaster Committee
- b) The National Disaster Executive and its Disaster Sub Committees
- c) The National Emergency Management Agency (NEMA)
- d) The Nevis Disaster Management Committee (NDMC)
- e) District Emergency Committees (DEC's)
- f) Community Disaster Chairmen (CDC's)
- g) Government Agencies (GO's)
- h) Non-Governmental Organizations and Agencies (NGO's)
- i) Private Voluntary Organizations (PVO's)
- j) Volunteers
- k) Regional and International Agencies

During Disasters, it comprises:

- a) National Emergency Operations Centre (NEOC)
- b) The Nevis EOC
- c) District Emergency Operations Centres (DEOC's)
- d) Community Emergency Operations Centres (CEOC's)

At the top of the NEO structure is the National Disaster Committee. It is the senior disaster policy committee in St. Kitts-Nevis, and meets annually. All other committees, sub committees and groups are subordinated to the National Disaster Committee. The National Disaster Executive functions in normal

¹ Refers to the collective institutional arrangements in place for emergency management across the Federation of St. Kitts and Nevis

times as well as in times of disaster, and acts on and oversees management of National Disaster Committee policies and programmes. Both the National Disaster Committee and the National Disaster Executive are chaired by the Prime Minister and include members representing specified agencies and other parties with responsibility for disaster management. The NEMA (in St. Kitts) and NDMD (in Nevis) are the Secretariats of the National Disaster Committee and of the NEOC (in St. Kitts) and of the Nevis Disaster Management Committee and the EOC (in Nevis) respectively. The NEMA is headed by the National Disaster Coordinator (NDC) and the NDMD is headed by the Director. The NEMA and NDMD operate at an island level, supported by Executive Sub-Committees. NDE Sub-Committees are charged with specific responsibilities. At a district level, the District Emergency Committees (DECs) are charged with particular responsibilities in relation to the preparedness for, mitigation of, response to and recovery from emergencies and disasters within their district. They are supported by District Disaster Sub-Committees.

If the magnitude of the emergency requires it, the NEOC in St. Kitts and/or the EOC in Nevis is activated (either partially or fully) by the NDC (St. Kitts)/Director (Nevis) to function as the headquarters of the activities to be undertaken in response to an emergency or disaster, and the response will then be coordinated by the NEOC/EOC. First responders will respond to small scale events without NEOC/EOC activation. Key first response agencies are all represented on the NDE Sub-Committees. The structure of the NEO is provided in Fig. 1 below.

The NEMA and NDMD are responsible for the maintenance of the NDP.

1.2 National Evacuation Plan relationship to the National Disaster Plan (NDP)

The model National Evacuation Policy and model National Evacuation Plan were developed by CDEMA in 2012/2013 at a time when CDEMA model national legislation was also under review. The National Disaster Management Act requires development of evacuation procedures to be applied in the event of evacuation of any area is desirable in the event of a state of emergency. The NDP requires NEMA to coordinate planning of evacuation measures and procedures, to be undertaken by Government Departments, agencies and committees. The National Disaster Executive directs the issue of evacuation of disaster areas considered unsafe.

Once the National Evacuation Plan is activated, other supporting policies and plans of the NDP will also be activated. These include:

- a) Draft Shelter Policy
- b) Transportation Plan
- c) Health Sector Plan
- d) District Emergency Management Plans²
- e) Fire Services SOPs
- f) Police SOPs
- g) Defence Force SOPs

² Not all districts have developed these

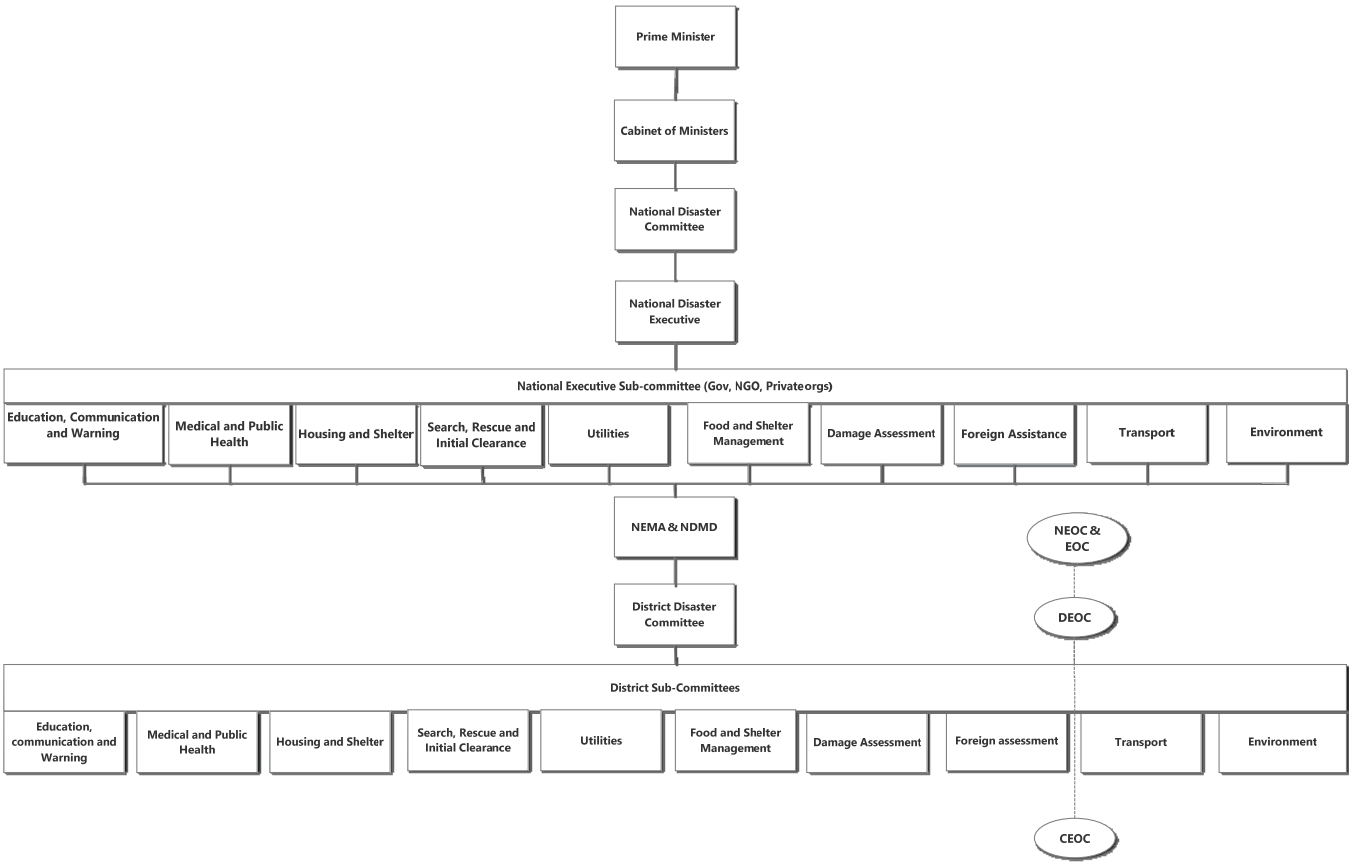


Fig. 1. Emergency Organisation (NEO) structure

1.3 Need for evacuation

Evacuation is a risk management strategy which may be used to respond to a hazard threat or the effects of an emergency or disaster on a community. It involves the movement of people to a safer location, whether in response to a threat of a hazard, or to a disaster. Some hazards do not have a warning phase, such as earthquake, fire and chemical spill. Other threats can be predicted and monitored, such as hurricane, flood and storm surge. For others, such as volcanic eruption and local tsunami, there may be limited warning in advance of the event. Preparation time available before hazard onset has implications for the prioritisation of activities to be undertaken. When warning time is limited, evacuation may not be feasible. In instances where hazards strike without warning, immediate evacuation may be required to remove persons from a place of danger to one of safety.

Hazards that may necessitate an evacuation in St. Kitts-Nevis are:

- Hurricane
- Flood
- Landslide
- Storm Surge
- Volcanic Eruption
- Tsunami
- Earthquake
- Pandemic
- Waterspout/tornado
- Bomb Threat
- Bushfire
- Fire
- Chemical and biological attacks
- Chemical release/spill (in storage or transportation)
- Aircraft Crash
- Marine Pollution
- Cruise Ship Accident
- Terrorist Attack
- Civil Unrest
- Dam Failure

There are five stages in the evacuation process, to be preceded by evacuation policy and plan development. These are:

- decision to evacuate
- evacuation warning
- withdrawal
- shelter
- return

These are briefly described below:

1.3.1 Decision to evacuate

The Controlling Agency/Competent Authority is required to take decisions relating to evacuation during emergency, cognizant of:

- the hazard threat
- time available
- community vulnerability
- community preparedness
- safety of response personnel
- local arrangements and evacuation plans in place
- availability of safer alternatives (such as protect/shelter in place)

- number of persons and demographics of groups to be evacuated
- local capacity to undertake the evacuation, and
- any relevant legislative provisions (Western Australia State Emergency Management Committee, 2010).

The decision may include identification of evacuation zone priorities, and secondary zoning, depending on the size of the area(s) affected.

1.3.2 Evacuation warning

Community warnings and timely advisories on the threat and required response should be undertaken by the Controlling Agency/Competent Authority in accordance with communications strategies contained in the National Disaster Plan.

1.3.3 Withdrawal

Evacuation may be voluntary or mandatory, in accordance with the warning issued by the Controlling Agency/Competent Authority. The Controlling Agency/Competent Authority is required to clearly direct persons conducting the evacuation as to the actions to be taken when persons refuse to evacuate.

1.3.4 Shelter

Evacuees are to be received and supported in accordance with the National Disaster Plan.

1.3.5. Return

The NDC/Director of the NEMA/NDMD will provide information to displaced persons, such as activities being undertaken, timeframe for their return and availability of assistance. Return of the community to an evacuation zone will only be authorized by the Controlling Agency/Competent Authority once it has ensured the absence of risk, and will be conducted in accordance with this National Evacuation Plan and Community and District Evacuation Plans.

Return assumes that the area evacuated remains safely habitable or can be returned to a habitable state in the short term. There will be instances however, when affected persons may have to be temporarily accommodated in the medium term, or resettled permanently elsewhere.

1.4 Purpose of the evacuation plan

The purpose of the evacuation plan is to provide procedures for the efficient coordination of the evacuation of individuals or communities at risk if it has been determined that evacuation is a suitable response to be used to protect the affected populations.

1.5 Scope

Evacuation scale is dependent on the magnitude of the threat or incident, and the number of areas and/or persons affected. The National Evacuation Plan provides coordination requirements for evacuations ranging in scale from a response to a single localised incident or hazard threat (small scale) to an incident or threat that may affect a number of areas or communities simultaneously, across the country (large scale).

Small scale evacuations can typically be managed on the scene by first responders supported by the DEC and NGOs without mobilisation of resources outside of the community or district. Large scale evacuations will require partial or full activation of the NEOC/EOC, and may also require mobilisation of external assistance. It is recognised that all responses, regardless of scale, must be managed locally by the

On Scene Commander(s). If additional support and coordination is required to facilitate the evacuation response, it will be channeled through the NEOC/EOC which has been activated for this purpose.

The plan is based on the use of a combination of public and private resources, and defines the roles of responsible parties.

This plan is multi-hazard in scope.

The plan addresses requirements for return of evacuees once the threat has passed.

1.6 Mission statement

The Federation of St. Kitts and Nevis National Evacuation Plan will provide for the re-location of persons and their belongings from a specific well defined area under the threat or impact of a hazard, disaster or emergency, via land, air or sea, to another safer location, out of the scope of the threat of the impact or the impact of the hazard, disaster or emergency, where they can have their everyday needs satisfied until they are relocated either back to the original place or to a place safe and out of reach of the impact or the direct effects of the hazard, disaster or emergency that triggered the initial displacement.

Section 2: Authority

This plan is prepared as required under the National Disaster Management Act which requires the NEMA/NDMD to develop evacuation plans and procedures.

The NDP provides for the activation of the National Evacuation Plan by the Prime Minister on the advice of the NDC and NEOC. Other national legislation provides legislative authority to respond to emergencies, and an evacuation may also be initiated at a local level by the:

- A. Property Manager
- B. First responder on scene/Incident Commander (police, fire, health)
- C. Police Commissioner (St. Kitts)/Assistant Commissioner (Nevis)
- D. Fire Chief (St. Kitts)/Divisional Fire Officer (Nevis)
- E. Premier (Nevis)

Section 3: Plan assumptions and limitations

3.1 Assumptions

It is assumed that:

- The Federation of St. Kitts and Nevis will maintain emergency service resources (staff of requisite capacity, equipment and supplies) as required to implement this Plan.
- Evacuation planning and exercising will be undertaken continuously, and will inform national response planning.
- There will be inter-agency cooperation in plan development and implementation.
- MOU between the State and private and other service providers for provision of assistance exist.
- Institutional leads (organisations) are trained to undertake an evacuation operation.
- All operational staff are familiar with their roles and responsibilities.
- Personnel for specific functions such as operation of Assembly points, NEOC/EOC etc. are available.
- If a community is under immediate threat, evacuation may be spontaneous.
- There will usually be sufficient time available to disseminate notice of evacuation and (at least partially) implement evacuation plans.
- Evacuation may have to be conducted in inclement weather conditions, and at any time of day or night.
- Most people called upon to evacuate will do so, but some will refuse, even if threatened by a high risk hazard.
- Some persons will evacuate without being directed to do so (shadow evacuation), unnecessarily increasing demands on resources.
- Activation of the evacuation plan will usually require the opening of shelters.
- Most evacuees will go to family or friends if this option is available to them, in preference over public shelters.
- Shelters closest to the evacuation zone will be opened preferentially, all other things being equal.
- It may be necessary to accommodate evacuees in shelters located beyond their own district.
- Supplies brought by evacuees may be limited due to the limited preparation time available to them, and they may require significant support (bedding, food, clothing, etc.) in the shelter.
- Assistance, transportation and/or special care from public authorities and other agencies may have to be provided to special needs persons located in special facilities and within the community, and this will be facilitated within available resources.
- Service animals may remain in shelters with their owners only at the discretion of the shelter manager.
- Large visitor populations (cruise and stay over) may be present in the community. Some of these may be accommodated in single villa type accommodation within the community. They may not routinely access all communications media available to resident populations.
- There are significant numbers of non-English speakers in the community, and these will also have to receive warning and other messages.

3.2 Limitations

- A. Inclement weather, darkness or dangerous conditions may restrict movement of evacuees and responder activity.
- B. Available capacity of watercraft, aircraft and ambulances may limit the ability to evacuate certain special needs and visitor populations.
- C. Effectiveness of the plan is dependent on support of extra-governmental agencies and volunteers.

Section 4: Institutional framework

4.1 Role of the NEO and NEOC/EOC in evacuation

The role of the NEOC/EOC in disaster management is described in the NDP. The following NEO Sub-Committees are required to perform a key role in National Evacuation Plan development and implementation:

- Transportation Sub-Committee
- Medical and Public Health Sub-Committee
- Education, Communication and Warning Sub-Committee
- Housing and Shelter Sub-Committee
- Food and Shelter Management Sub-Committees
- District Emergency Committees (DECs)

The NDP outlines the organisational framework for development and implementation of the plan, including this National Evacuation Plan, and articulates the composition of the NEO structure and the institutional linkages between agencies. The NEO structure is provided in Figure 1. Lead public agencies in St. Kitts involved in an evacuation response are:

1. St. Christopher and Nevis Police Force
2. St. Kitts Nevis Fire and Rescue Services
3. EMS³
4. Defence Force
5. Ministry of Communications, Works and Public Utilities
6. Ministry of Agriculture, Marine Resources and Cooperatives
7. NEMA/NEOC (if activated)
8. NDMD/EOC (if activated)
9. Ministry of Health/hospitals/health centres

There are counterpart agencies in Nevis with similar functions.

These agencies together with other support agencies are represented on the NEOC/EOC, DEC's and/or the NDE Sub-committees.

The roles of the following key agencies and groups in emergency management including evacuation are described in the NDP:

- St. Kitts Nevis Meteorological Services
- St. Christopher and Nevis Police Force
- St. Kitts Nevis Fire and Rescue Services
- St. Kitts Nevis Defence Force (SKNDF)
- Ministry of Communications, Works and Public Utilities
- Ministry of Education

³ may be part of Ministry/Department of Health or Fire Service

- Ministry of Health
- Ministry of Finance
- Ministry of Agriculture
- Ministry of Tourism
- Ministry of Sustainable Development (with responsibility for physical planning)
- Voluntary organisations such as Red Cross, Cadets Corp
- Faith-based groups such as Christian Council, Evangelical Association, ADRA
- Civic groups such as Rotary Club, Lions Club
- District Emergency Committees (DECs)

4.2 Evacuation Planning

Evacuations will begin and end at a local community level, regardless of the magnitude of the event. Communities must therefore be prepared to respond to a spectrum of events, from small scale events that affect a limited local area up to emergencies of a magnitude that may affect entire communities country-wide. Events may or may not be pre-warned, may occur at any time of day or night, and may emanate from unexpected locations.

The following need to be considered at the planning stage and reviewed at the time of the response:

- area(s), populations, institutions and critical facilities to be evacuated
- evacuation route(s) and traffic control required
- evacuation responsibilities
- requirements for transportation support, including for special needs populations
- other care and assistance required by special needs populations
- shelter requirements (locations, capacities, special needs to be catered to)
- resource needs and availability
- evacuation watch and warning message content
- communication of the evacuation watch and warning, and
- security of evacuation zones.

Hazard specific planning information is contained in the Community/District Evacuation Plans (Appendix 1) and in Appendix 2 to this National Evacuation Plan. Hazard-specific evacuation plans must be maintained and readily accessible to response personnel.

Emergency- or incident-specific circumstances may warrant alterations to the documented evacuation plans during the response. Such alterations will be the responsibility of the Controlling Agency/Competent Agency and/or Incident Command. This will be the NEOC/EOC if it is activated.

4.2.1 Risk assessment and plan development

Evacuation plans are to be based on hazard- and community-specific risk and vulnerability assessments to be undertaken by Red Cross, CDRT and Ministry of Sustainable Development in collaboration with the NEMA/NDMD. These assessments will inform evacuation planners as to areas, facilities and numbers of persons likely to be affected, vulnerability of proposed evacuation routes and other critical infrastructure.

The following entities are to develop and maintain an all hazard disaster management plan inclusive of an evacuation plan, to be approved by the NEMA/NDMD:

- All communities, institutions (in particular schools, hospitals, nursing homes, orphanages, prisons and other institutional living facilities), hotels, marinas and commercial entities
- All entities, whether State or private, involved in the storage and transportation of hazardous materials
- All cruise agents, in collaboration with national agencies, for passengers and crew originating from their cruise ships (whether evacuation off a ship is required due to an incident on board, or landed passengers and crew are threatened or affected by a hazard while the ship is in port).

Heads of households are encouraged to develop a Family Evacuation Plan (see Appendix 3) as part of their Family Disaster Plan.

The NEMA/NDMD is to provide support to institutions and commercial entities in their development and practice of disaster management (inclusive of evacuation) plans.

The NEMA/NDMD is required to take the lead in developing and maintaining community/district plans and the National Evacuation Plan in collaboration with the Ministry of Communications, Works and Public Utilities, EMS, emergency management, fire and police officials, Ministry of Finance, Ministry of Social Services, Community Development, Culture and Gender Affairs in St. Kitts and the Nevis Ministry of Social Development, voluntary organisations and community representatives. All these agencies are required to collaborate in the development, practice and review of evacuation plans. Plans are to be scalable, from a community and district level, up to a national (large) level, with scale of response determined by the magnitudes of the event and evacuation response required.

The evacuation plans are to include plans for effectively returning or otherwise accommodating the displaced community(s).

Annual exercises (table top or drills) are to be conducted.

Debriefs are to be conducted after a simulation or actual event, and it is to be ensured that lessons learnt are incorporated into updated plans by the NEMA and NDMD.

Section 5: Concept of operations

- A. Evacuation entails the movement of persons from an area of risk to a safer area once it has been determined that evacuation is an appropriate response to a hazard threat or incident, and their return once conditions are safe. An evacuation may be small or large scale. Evacuation scale will be determined by factors such as event/threat magnitude and duration of the emergency. Small scale evacuations are most common, and might be required in response to localized incidents such as a hazardous materials accident, building fire, landslide, transportation accident or flooding. Large scale evacuations requiring the movement of a large community(s) of people may be necessary for a major natural disaster or extreme act of terrorism.
- B. This National Evacuation Plan is a plan of the NDP. Once activated, it will be supported by other relevant sections of the NDP including plans of the NDE Sub-Committees, DEC's and Standard Operating Procedures (SOPs).
- C. Evacuation may be ordered by the following Controlling Agencies/Competent Authorities⁴:
 - A. Property Manager
 - B. First responder on scene/Incident Commander (police, fire, health)
 - C. Police Commissioner (St. Kitts)/Assistant Commissioner (Nevis)
 - D. Fire Chief (St. Kitts)/Divisional District Fire Officer (Nevis)
 - E. Premier (Nevis)
 - F. Prime Minister (St. Kitts/Federation)
- D. Small scale evacuations will be managed on-scene by the Fire Services or Police Force. Calls from the public to report an incident that may require an evacuation response will usually come into and be routed through the Police and/or Fire Alert Room. First responders will assess and determine whether evacuation is required. If an evacuation is necessary, the first responder on scene will notify the Alert Room which shall notify the Police Commissioner/Fire Chief (through normal chain of command), the DEC and the NEMA/NDMD.
- E. Once it is determined that an evacuation is required, the police and/or fire personnel on scene will take command, and use available personnel to form an Incident Command Team, based on the ICS. The Incident Commander will brief his team regarding the situation and direct them accordingly. If the event is of a large scale that requires partial or full activation of the National Evacuation Plan and the NEOC/EOC, the NEOC/EOC will coordinate the activities of, and provide support to, the On-Scene Commander(s).
- F. Advance notification of a threat that may require large scale evacuation and activation of the NEOC/EOC will originate from the NEMA/NDMD, authorized by the Prime Minister/Premier, conveyed directly to the Commissioner of Police/Assistant Commissioner, Fire Chief/Divisional District Fire Officer and other NEOC/EOC members.

⁴ These are listed in order of increasing scale of evacuation required and increasing warning time available to authorities

- G. Once the NEOC/EOC has been partially or fully activated, dissemination of all evacuation public information will be coordinated by the NEOC/EOC and broadcast over the Early Warning System and by the media. Evacuation warnings on scene, for any scale of evacuation, may include door-to-door notification, mobile sirens and public address systems by first responders, DECs, Community Disaster Committees and voluntary organisations.
- H. Hospitals, nursing homes, prisons, schools, child and adult day care facilities are required to develop evacuation plans as part of their NEMA/NDMD-approved disaster management plans. These should include MOU with similar facilities and transportation providers, to be called upon to assist them in case of evacuation. An evacuation watch will be issued to these groups to facilitate their early preparations for a possible evacuation. Transportation and other assistance will be provided in accordance with their NEMA/NDMD-approved facility evacuation plans.
- I. Hotel and tourism associations and foreign country representatives responsible for visitors and other foreign interests will be alerted through the Ministry of Maritime Affairs and International Transport, Ministry of Tourism and the Ministry of Foreign Affairs respectively. These are expected to voluntarily evacuate using their own means in accordance with their NEMA/NDMD-approved site specific plans and Tourism Sector Evacuation Plan (see Appendix 7). An early evacuation watch will be issued to these groups to facilitate the departure of visitors and other foreigners from the country by scheduled commercial flights if they wish. Transportation assistance in country (land and sea) will be provided in accordance with the Tourism Sector Evacuation Plan.
- J. Commercial houses and institutions are required to have evacuation plans as part of their NEMA/NDMD-approved disaster management plans, and should also be familiar with the National Evacuation Plan and their Community/District Evacuation Plan.
- K. Once an evacuation warning has been issued, the On Scene First Responders/Incident Commander(s) will attempt to evacuate all persons from the designated evacuation zone(s) in accordance with the evacuation plan. If a mandatory evacuation has been called, any person who refuses to evacuate will be advised by emergency personnel of the risks of remaining and that there will be no assistance available during the event. Persons under the influence of alcohol or drugs or deemed unable to make sound decisions will be forcibly removed.
- L. Protection of human life is the immediate goal of emergency responders. Animal owners are strongly advised to develop their own evacuation plan for their pets and livestock in consultation with the Ministry of Agriculture in collaboration with NEMA/NDMD. During a disaster emergency, the Police and Fire service are not responsible for the welfare of animals.
- M. Persons within the evacuation zone with access to transportation are expected to use their own transportation to evacuate the area if possible, following the advice contained in the evacuation warning. Public transportation⁵ will be used to transport persons from designated Assembly Points to designated shelters, in accordance with information provided in the evacuation warning. NEOC/EOC may permit stops at designated points along the evacuation route, beyond the evacuation zone, for those who opt to go to family and friends.

⁵ School buses may also be used if these are available and school children have already been safely removed from schools in the evacuation zone.

- N. Evacuee data will be collected at Assembly Points (if time permits) and at the shelters. Self-evacuees who have not gone to Assembly Points or shelters will be encouraged to register at specified locations⁶.
- O. Coordination of shelter operations will be by the Housing and Shelter Sub-Committee in accordance with the National Disaster Plan.
- P. The Medical and Health Sub-Committee will coordinate medical care and mass care operations.
- Q. When it is safe to return and the all clear has been given by the Controlling Agency/Competent Authority, the NDE Transportation Sub-Committee will coordinate the return of evacuees with the Police Force, Ministry of Communications, Works and Public Utilities, DEC's, etc.

⁶ Registration of self evacuees will facilitate tracking of evacuees and assessment of resources they may subsequently require of the State.

Section 6: Evacuation operations

6.1 Decision to evacuate

In situations where rapid evacuation is necessary to protect health and safety, the On-Scene First Responder/Incident Commander (may be fire, police or health authority) may order and direct the immediate evacuation of persons at risk.

The Prime Minister/Premier is responsible for ordering a larger scale evacuation in response to an imminent threat, on the advice of the NEMA NDC/NDMD Director. A decision to evacuate is taken when:

- the risks of sheltering in place outweigh the risks of evacuating
- the evacuation can be completed before the onset of hazardous conditions, or
- hazardous conditions will prevail for an extended period.

Otherwise, shelter in place is preferable.

Expert knowledge, hazard forecasts, hazard and site specific risk and vulnerability assessments and Community/District Evacuation Plans will together provide decision makers with the following information:

- magnitude of hazard
- limits of area(s) likely to be affected
- population(s) likely to be affected
- extent of care and transportation assistance likely to be required, and
- time required to evacuate targeted areas.

The evacuation decision issued by the Prime Minister will clearly stipulate the evacuation zone(s) and whether evacuation is immediate, partial, voluntary/precautionary, recommended or mandatory. The evacuation zone boundaries may be redefined over time if forecasts and circumstances change, thereby changing the potential impact area. Phased evacuation (whether by area or group) is to be considered by the NEOC/EOC if required to avoid congestion and to ensure that special needs populations can be evacuated on time (Emergency Management Australia, 2005).

First responders and other relevant response agencies expected to be involved in the withdrawal phase of the evacuation plan are to be notified by the NEOC/EOC of the decision to evacuate before public announcements to that effect are made. This includes the leadership of transportation and health authorities, EMS, fire, police, voluntary organisations, Disaster Sub-Committees and DEC's who are required to collaborate in the execution of evacuation plans. They are to be appropriately briefed. Briefings will detail the following:

- the decision and reasons for the evacuation
- authority to evacuate including management of persons who refuse to evacuate
- arrangements for special needs populations
- location of evacuation routes, Assembly Points, safer places and shelters
- special instructions to be given to evacuees
- records to be kept of evacuees and those remaining

- reporting requirements, and
- security of evacuated areas.

6.2 Evacuation watches and warnings

For small scale evacuations, the Incident Commander on scene will determine whether and how a warning is to be issued in the vicinity of the incident, and will dispatch persons accordingly.

For large scale evacuations where the NEOC/EOC is partially or fully activated, the NEOC/EOC will issue the evacuation watch, warning and other information. It will coordinate information dissemination with the First Responders/On-scene Commander(s) to ensure that all targeted persons are informed. Procedures for warning and other public information dissemination are contained in the National Disaster Plan.

Watch and warning messages are to be clear, to the point, easy to understand, and to originate from trusted sources. They are to be carefully scripted to ensure that panic is not induced, and that persons who need not evacuate, do not do so unnecessarily. As far as possible, warning messages are to be pre-scripted in English and translated into Spanish and French. Sign language and scrolls should be used during television broadcasts to the extent possible.

Once it becomes clear that evacuation may be required, an evacuation watch is to be issued to potentially affected residents as soon as possible, with guidance such as:

- area likely to be impacted
- available lead time before evacuation is likely to occur
- location of evacuation routes
- requirements for fueling vehicles, preparing supplies and securing premises
- capabilities and limitations of authorities to assist, and
- sources of further information (website, phone number).

Special needs individuals and facilities are to be advised, directly if necessary, at the evacuation watch stage to:

- review their evacuation plans
- prepare for evacuation, and
- confirm/advise of any special assistance requirements.

Evacuation warning messages are to be issued when an evacuation is authorised, containing the following information (Emergency Management Australia, 2005):

- issuing authority
- date and time of issue
- description of the hazard
- affected areas
- advice, including:
 - who should evacuate
 - what to bring, and what not to bring
 - risk minimisation measures to take if staying
 - listening to nominated media
 - securing of premises and personal effects

- evacuation routes, Assembly Points and shelters
- capabilities and limitations of authorities to assist
- limiting use of the telephone
- details of hazard response being undertaken by the authorities
- the need for early action to reduce congestion
- the need to help carless neighbours or special needs persons if possible
- the risks to target groups of not evacuating, and
- time of next warning.

The public is to be kept informed in a timely and factual manner through briefings and advisories from the NEOC/EOC.

6.2.1 Watch and warning delivery

All available warning systems are to be used to disseminate evacuation watches and warnings to the public. Warning systems are to ensure that special needs populations as well as non-residents, tourists and non-English speakers receive the warning.

For a small scale, immediate evacuation, vehicles with sirens and loud speakers may be used. Door to door notification by runners may also be used for large buildings and disperse settlements.

For a large scale evacuation the Federation early warning system has a number of means to deliver evacuation watches and warnings to the public:

- SMS,
- emails to website subscribers and email distribution lists,
- social media,
- mobile app notifications,
- radio,
- television,
- RDS receivers,
- Portable loud hailer/megaphone,
- PA system,
- door to door visits,
- sirens,
- church bells,
- NEMA, NDMD and other national websites
- telephone hotline.

6.3 Confirmation of evacuation and refusal to evacuate

Evacuees are to be requested to place a note on the front door indicating that they have left. Houses that have been evacuated are to be marked by responders on the ground, signifying that the house has been vacated.

The NEOC/EOC is to be advised of areas not evacuated so that post-disaster services may be provided to these areas as a priority.

6.4 Communications

Effective communications are to be maintained in accordance with the National Disaster Plan between:

- key members of the First Response/Incident Command Team which coordinates and directs the evacuation in the field,
- the NEOC/EOC and the First Responders/On-scene Commander(s), if the NEOC/EOC is activated, and
- emergency management agencies, first response agencies, voluntary organisations, and critical facilities equipped with communications infrastructure.

Emergency contact information at a national level is contained in Appendix 4, and at a community level, in the Community/District Evacuation Plans (Appendix 1). Both the NEOC/EOC and First Responders/On-scene Commander(s) are to maintain a list of key persons, their contact information and locations in the field.

6.5 Volunteer Management

Volunteer leaders are to report to the person designated by the First Responder/On-scene Commander or NEOC/EOC member(s) responsible for the area(s) in which they have been directed to assist.

6.6 Evacuation traffic control and monitoring

Availability of planned evacuation routes is to be confirmed by the Police and Ministry of Communications, Works and Public Utilities. National and Community and District Evacuation Plans (see maps and other details in Appendix 1 to this plan) are to be amended accordingly by the First Responder/Incident Commander (this is the NEOC/EOC if activated). Evacuation traffic is to be managed by police supported by Ministry of Communications, Works and Public Utilities. They are to establish a perimeter around the evacuation zone, establish evacuation route controls, control traffic and manage accidents, all in accordance with evacuation plans:

- If warning time permits, traffic control devices and signage are to be deployed by the police and Ministry of Communications, Works and Public Utilities.
- Officers are to be deployed at key junctions along evacuation routes, on the perimeter, at Assembly Points, and on local streets that access the evacuation routes, and reports are to be made to the Transportation Sub-Committee at the NEOC/EOC.
- Tow trucks are to be stationed at strategic points along the evacuation route to clear accidents and breakdowns, as long as space allows for this.

CCTV if available on priority routes is to be accessed by the NEOC/EOC for monitoring purposes. Aerial reconnaissance may also be used.

Available information is to be reviewed within the NEOC/EOC as the evacuation progresses and plans modified as necessary.

6.6.1 Contraflow Strategies

Two-way traffic is to be maintained on evacuation routes as far as possible. Contraflow traffic will be implemented to increase the outbound capacity of evacuation routes and clearance times only if these are part of the evacuation plan and an order to institute contraflow measures is given by the Prime Minister /Premier upon the advice of the NEOC/EOC. The decision on whether or not to use contraflow strategies will be influenced by considerations such as:

- time of day,
- traffic volumes anticipated versus capacity of evacuation routes,
- availability of sufficient equipment (barricades, traffic control devices, communication devices) and law enforcement and transportation personnel to properly manage the operation as well as attend to other critical functions,
- access to clear disabled vehicles or attend to medical emergencies on the route,
- access for inbound traffic,
- safety,
- convenience, and
- cost.

Inbound traffic into the area, if allowed at all, may continue on other (secondary) routes, to enable persons to retrieve family members within the evacuation zone, and enable emergency and service personnel to get into the evacuation zone.

The decision to shut down contraflow operations may be taken when night falls, conditions are expected to deteriorate due to the approaching hazard, or traffic volumes no longer warrant the contraflow operation.

If it is intended that contraflow operations are to be used on an evacuation route, authorities will:

- Erect appropriate barricades and signage visible from the outbound direction.
- Clear inbound routes of vehicles.
- Position law enforcement and transportation personnel as required for traffic management. Personnel are to be stationed at the beginning and termination points of the contraflow operation and at all junctions (to prevent inbound traffic and ensure that all vehicles entering the contraflow segment travel in the outbound direction only).
- Use escort vehicles to start and end the contraflow operation.
- Broadcast regular information on the evacuation routes, contraflow operations, lane closures, traffic movements, incidents on the route, alternate routes, and shelter information using established communication protocols, including use of popular radio station frequencies.

6.7 Identification and management of Assembly Points

Assembly Points may be open spaces or buildings that offer shelter, and may be either publicly or privately owned. Community/District Evacuation Plans are to be developed as an Appendix (Appendix 1) to this National Evacuation Plan, and among other things, should identify possible Assembly Points within the evacuation zone and along the evacuation routes. The availability/suitability of these is to be confirmed by the First Responder/Incident Commander/NEOC/EOC and the locations of those to be used included in the evacuation warning. Suitability will be dictated by factors such as:

- weather conditions,
- time of day,
- available lighting at the location,
- available access and capacity for people and vehicles,
- available sanitation facilities,
- proximity to evacuation routes, and
- vulnerability to hazard threat or condition after the incident.

Evacuees without transportation are to be directed to assemble at these points to obtain public transportation to designated shelter(s) (or other designated locations beyond the evacuation zone and along the route, if this is being facilitated by the NEOC/EOC).

Assembly Points are to be set up to have three distinct areas:

- Registration
- Waiting
- Loading.

Assembly Point staff will receive, register and dispatch evacuees at Assembly Points. Each Assembly Point is to be manned as tabulated below. Staff will be assigned by the police, NEOC/EOC, DEC and Ministry of Communications, Works and Public Utilities, and with the exception of the Security Officer, may be volunteers.

Table 1. Assembly point staffing	
Assembly point function	Agency responsible for assigning personnel
Assembly Point Manager	NEOC/EOC
Transport Manager	Ministry of Communications, Works and Public Utilities
Traffic Management Officer	Police/Traffic Department
Dispatch Officer	Ministry of Communications, Works and Public Utilities
Registration Clerks	DEC
Waiting Area Clerks	DEC
Communications Officer	Education, Communication and Warning Sub-Committee
Security Officer	Police

The Assembly Point Manager will:

- Set-up and stand-down Assembly Point.
- Coordinate all activities at Assembly Point.
- Send reports to First Responder/Incident Commander/NEOC/EOC (see Activity log in Appendix 5).
- Ensure completion of documentation and record keeping.

The Registration Clerks will:

- Complete Registration Forms⁷ (See Appendix 6).
- Ensure all evacuees are registered on Registration Forms.
- Pass all 3 copies of Registration Forms to Dispatch Officer.
- Receive returned copy of Registration Form from Dispatch Officer, complete with driver and vehicle details.
- Maintain file of all registrations.

⁷ These should be in triplicate on NCR paper.

Waiting Area Clerks will:

- Ensure evacuees are placed near to the transportation going to their destination.
- Keep order among evacuees waiting for transportation, with the assistance of the Security Officer if necessary.
- Send families on to the Loading Area when required by the Dispatch Officer.

The Dispatch Officer will:

- Receive Registration Forms from Registration Clerks.
- Enter vehicle and driver information on Registration Forms.
- Determine order of families to be moved to the Loading Area.
- Ensure evacuees are loaded on to the correct transportation, and families are kept together.
- Pass 2 copies of Registration Forms to bus driver.
- Return 1 copy of Registration Form to Registration Clerks.
- Ensure communications is available on each bus⁸, and that the bus driver has the contact number of the Dispatch Officer.
- Brief driver on route, destination and procedures⁹ for disembarking passengers.

The Transport Manager will:

- Maintain a list of all transportation resources.
- Register incoming vehicles, mileage and drivers.
- Ensure adequate transport resources are available.
- Manage fuelling of transportation in accordance with the National Disaster Plan.

The Security Officer will:

- Ensure security and crowd control.
- Make announcements at Assembly Points as requested by the Assembly Point Manager, using a loud hailer.

The Traffic Management Officer will:

- Manage traffic at the Assembly Point.
- Ensure smooth flow of traffic into and out of the Assembly Point.

The Communications Officer will:

- Provide communications to the First Responder/Incident Commander and NEOC/EOC from the Assembly Point.

⁸ Driver cell phone will suffice.

⁹ Some buses will be non-stop, others may be permitted to stop at designated points beyond the evacuation zone to allow persons not going to public shelters to disembark.

- Receive directives from the NEOC/EOC regarding shelters or other locations to which evacuees are to be transported. This will be based on shelter capacity and availability, evacuation route conditions, evacuee special needs, information from shelter managers, hospitals and other facilities.
- Maintain contact information of other Assembly Point personnel, as well as On-scene Commander and NEOC/EOC contact information.

The Transportation Drivers will:

- Comply with directives of the Traffic Management Officer.
- Advise Transport Manager if fuel is required.
- Sign and accept Registration Forms from the Dispatch Officer.
- Transport evacuees as directed by the Dispatch Officer, to designated shelters or other destinations.
- Deliver one copy of the Registration Form to the Registration Clerk at the shelter or destination.
- Retain one copy of the completed Registration Form (signed by the Registration Clerk) for return to the Assembly Point Manager for his/her records.
- Fuel up vehicle at designated stations as directed by the Transport Manager.

6.8 Transportation management

Persons with vehicles or other appropriate means of transportation are expected to use these to evacuate, and are to be encouraged during both the planning and warning phases to assist persons without vehicles or requiring other special assistance, if possible.

Persons without access to vehicles will need transportation assistance, whether from neighbours or the public authorities. Persons who are able, are to make their way to designated Assembly Points for public transportation to shelters (or to other locations along the evacuation route if this is permitted by the NEOC/EOC).

Special needs populations will require public assistance with evacuation preparation and transportation from their residence or facility (see below), in accordance with NEMA/NDMD-approved facility and Community/District Evacuation Plans. Institutions such as schools, hospitals, homes and prisons will also require transportation and other specialist assistance, in accordance with their NEMA/NDMD-approved evacuation plans.

Public transportation is to be provided by school buses, government-owned vehicles, ambulances (whether publicly or NGO-owned), private buses (through licensing, MOU or other arrangements with individuals or taxi and bus Associations), trucking Associations, heavy equipment owners and volunteers. The Transportation Sub-Committee is responsible for assigning transportation assets as required. Refer to the NDP and Transportation Plan for further guidance.

Commented [a1]: To be advised by Legal

The NEOC/EOC in consultation with On-scene Commander(s) and Assembly Point managers may opt to limit the number of stops made along the evacuation route to allow persons to disembark, to reduce travel time if necessary. Conditions may dictate that evacuees are first taken to an interim stop outside of the evacuation zone (a "Safer Place"), to enable transportation to return and transport as many persons out of the evacuation zone as possible. Certain transportation activities, such as contraflow operations, may only be safely undertaken during daylight hours.

There will be instances when evacuation on foot is the only or most feasible option available to communities under threat. This will usually be the case for tsunamis generated by a local event for which limited warning time available.

When the decision to stand down the evacuation has been taken by the NEOC/EOC, this decision will be conveyed directly to all On-scene Commanders, DECs and Assembly Point Managers. All Transportation Drivers will be directed to leave the evacuation zone, park the vehicle in a safe location and seek appropriate shelter as required.

6.9 Evacuation response to events without warning

Events without warning may occur, and evacuation transportation is required. Preparation activities will be limited and the Evacuation Plan will be revised accordingly. As far as possible, the DEC will be activated, Assembly Points identified and staffed, transportation MOU and other agreements activated, and Police will provide security at Assembly Points and traffic management along evacuation routes. The NEOC/EOC will be partially or fully activated, and will be requested to coordinate support as required. Shelters will be opened as required.

Stand down of evacuation and return will be conducted as for other events.

6.10 Assistance required by special needs populations

The database of special needs populations who will need transportation and other assistance in an evacuation is to be consulted by the Welfare and Relief Supplies Sub-Committee in collaboration with the DECs, arrangements confirmed and required support provided to the extent possible.

Warning systems are to ensure that special needs populations receive the evacuation watch information sufficiently early to properly respond. This may be via email from the NEOC/EOC, telephone call or visit (this may be by volunteers if the plan provides for this) to special facilities and registered special needs persons, requiring them to:

- review their evacuation plans,
- prepare for evacuation, and
- advise of any special assistance requirements.

The NEOC/EOC (if activated) or the DEOC is to coordinate requisite support from State or other available sources to special needs populations for their evacuation preparation, transportation and care during and after an evacuation. This may include specialised staff and transportation equipment and special medical attention. Notwithstanding the arrangements in place with volunteers, caregivers, etc., the First Responder/On-scene Commander is to confirm that special needs populations have been evacuated. Vulnerable persons in at-risk areas are to hang a white sheet from a window if they need help.

If circumstances are such that patients/inmates/students cannot be accommodated in like facilities beyond the evacuation zone, authorities are to assist the facilities being evacuated in identifying other suitable emergency reception facilities.

Special needs populations are to be preferentially accommodated in shelters best equipped to meet their needs (e.g. shelters with ramps, wheelchair accessible washrooms, capacity to make special dietary provisions, policy on admission of service animals), and vehicles transporting such persons are to be directed to these shelters. Consideration will be given to the admission of service animals at the discretion

of the shelter manager. This is conditional on public health issues at the shelter being satisfactorily addressed.

Hotel and marina managers, cruise and villa agents are to properly prepare their visitors in accordance with their NEMA/NDMD-approved disaster management plans. Visitors are to be given the option of leaving the country in advance of an event (whether by airplane, helicopter, ferry/other available vessel, cruise ship) if warning time permits, or as soon as possible in the aftermath of an event (refer to Appendix 7, Tourism Evacuation Plan).

6.11 Animal evacuations

Pets and livestock are not permitted at public shelters. Pet owners must make suitable plans for the accommodation of their pets at friends, relatives, animal shelters or other designated safe area. Livestock owners are to develop evacuation plans for their livestock in collaboration with the Ministry of Agriculture supported by the NEMA/NDMD.

Service animals required by special needs persons may be accommodated in a public shelter at the discretion of the shelter manager, if public health can be maintained.

6.12 Shelter management

Shelters are to be managed in accordance with the National Disaster Plan.

6.13 Places of Last Resort

Limited pre-warning, uncertainties in event forecasting and behavior analysis may result in evacuation not being completed as foreseen. At the planning stage, Places of Last Resort should be identified for the general population as well as for response agencies, and MOU executed for these.

6.14 Evacuation zone access control and security

Police are to establish and maintain access control points to limit entry into evacuation zones. Evacuated and un-evacuated areas are to be patrolled for as long as this does not place security forces at risk.

If the area is unsafe for return after the event, only persons authorised by the NEOC/EOC/On-scene Commander (primarily emergency and utility workers) are to be allowed entry until displaced persons are permitted to return.

6.15 Return

Timely and accurate information is to be provided by the NEOC/EOC to displaced persons, such as activities underway, timeframe for return, assistance available, etc.

Re-entry is to be phased. First stage re-entry will be by police, utilities, public works, relief vehicles, transportation and other response officials only, to:

- open up priority routes (e.g. access to hospitals, response agencies, utilities, primary roads),
- maintain security,
- ensure the absence of risk from other hazards (uncertain structural integrity, site contamination, hazardous materials, downed power lines, ruptured gas, water and sewer lines, health threats, etc.)

before issuing an all clear.

Resources are to be mobilised by the NEOC/EOC to expedite inspections of residences and other buildings to be re-occupied, to confirm the absence of risk and facilitate the earliest return of evacuees.

For small scale incidents, the First Responder/Incident Commander will take the decision that it is safe to return, and will disseminate this decision appropriately. For large scale incidents where the NEOC/EOC has been activated, the decision will be taken by the Prime Minister/Premier upon the advice of the NEOC/EOC, and the NEOC/EOC will inform the public using available warning systems.

Re-entry into the evacuated area by evacuees and other members of the public is to be prevented by the Police until the all clear is given. Re-entry traffic into the evacuated area is to be controlled by the Police supported by the Ministry of Communications, Works and Public Utilities. Contraflow strategies are not to be used for re-entry.

Evacuees are to be encouraged to return to their own premises as soon as the authorities have issued an all clear. Returnees are to be advised by NEOC/EOC public advisories regarding:

- what to expect
- documentation of damage for insurance purposes
- precautions in reactivating utilities and appliances, and
- clean-up and debris removal.

6.16 Public assistance in the return phase

Transportation and other support are to be provided where practicable to special needs persons in returning and resettling into their homes. This will be coordinated by the Transportation and Welfare and Relief Supplies Sub-Committees in accordance with the National Disaster Plan and relevant MOU.

Criteria for eligibility for public assistance to special needs and other persons include:

- capacity of affected persons to assist themselves, and
- availability of public resources.

The NEOC/EOC will coordinate:

- temporary housing and/or resettlement if return to part or all of the evacuated area is not possible, in accordance with the National Disaster Plan, and
- recovery activities for evacuees who have suffered loss or damage, in accordance with the National Disaster Plan.

6.17 Evacuation checklist

An evacuation checklist is provided in Appendix 8.

6.18 Post-incident and annual review

For small scale incidents, the Incident Commander will conduct and document a review of the evacuation operation.

For larger scale events, the NEMA/NDMD shall conduct a review of operations undertaken by all responsible agencies, and update the National Evacuation Plan accordingly.

The National Evacuation Plan is to be reviewed and updated by the NEMA/NDMD annually, preferably after a simulation or other exercise.

All reviews are to be in consultation with key agencies.

Section 7: Trans – island/country threats or incidents

7.1 Sub-Regional Coordination Centre (SRCC)

The Federation of St. Kitts and Nevis is served by a SRCC in Antigua and Barbuda. The SRCC is responsible for providing support in emergency/disaster situations on behalf of CDEMA, including storing emergency supplies for the countries within its sub-region. Upon notification by the Federation, the SRCC will arrange to move supplies into the Federation.

Refer to SRCC Standard Operating Procedures (SOPs) for further guidance.

7.2 Assistance from other States

Requests for assistance from other CDEMA PSs will be channeled through CDEMA or the Ministry of Foreign Affairs. Support provided will be in accordance with the following agreements:

- Agreement between Member States and Associate Members of the Association of Caribbean States for Regional Cooperation on Natural Disasters,

Requests for assistance from other States will be channeled through the Ministry of Foreign Affairs.

Section 8: Appendices

APPENDIX 1: EVACUATION PLAN FOR [COMMUNITY/DISTRICT]

Date last updated: _____

[Community/District] is vulnerable to a number of hazards that may require evacuation of segments of the population. The following are contained in this Appendix¹⁰:

Figure 1. Map of [Community/District]

Table 1. [Community/District] total population (based on [2010] Census)

Table 2. Hazard specific vulnerable areas and populations

Table 3. Special needs populations in institutions (e.g. Schools, homes, prison, hospital)

Table 4. Special needs individuals in the [community/district]

Table 5. Hazard specific vulnerability of critical facilities

Table 6. Contact data for emergency management organisations in [community/district]

Table 7a. Service provided and contact data for community volunteer organisations in [community/district]

Table 7b. Goods and services for which MOU may be executed

Table 8. Locally available resources (e.g. Heavy equipment, chainsaws, dinghies etc.)

Table 9. Transportation available within [community/district]

Table 10. Communications infrastructure in [community/district]

Table 11. Runways that may be used for removal of persons from [community/district] by air

Table 12. Jetties that may be used for removal of persons from [community/district] by sea

Table 13. Traffic plan for [community/district]

Table 14. Traffic control on evacuation route

Table 15. Perimeter and access control on outer perimeter

Table 16. Perimeter and access control on inner perimeter

Table 17. Possible assembly point locations and their hazard vulnerabilities

Table 18. Availability and hazard vulnerability of open space (for camp sites, temporary holding space, safer place, etc.)

Table 19. Availability and hazard vulnerability of shelters

Table 20. Availability and hazard vulnerability of Places of last resort

Table 21. Assignment of buses to assembly points within [community/district]

Table 22. Estimated evacuation route clearance times from designated assembly points to specified shelters (hours)

Table 23. Contents of community evacuation kits

¹⁰ Some of the information proposed to be gathered in these tables may already be collected under other plans e.g. shelter availability and vulnerability, contact data, available equipment and infrastructure, etc. in which case, the table(s) should be replaced with a reference to the relevant plans

Figure 1. MAP¹¹ OF [COMMUNITY/DISTRICT]

[Community/District map shows locations of:

- special needs facilities (schools, nursing homes, prison, hospitals, hotels)
- critical facilities (police, fire, hospital, emergency management, utilities)
- hazmat locations (e.g. fuel depots and transportation routes, chemical storage sites)
- areas vulnerable to specified hazards (e.g. flood, storm surge, tsunامي, landslide, volcanic eruption, hurricane, hazmat spill, fire)
- location of primary and secondary evacuation routes, Assembly Points, places of last resort, safer places and shelters

Description (Approximate)	Total
Adult (65 and older)	
Adult (18 - 65)	
Youth (4-17)	
Toddler (0-4)	
TOTAL (approximate)	

¹¹ Maps showing hazard vulnerabilities may be overlays for clarity. GIS may also be used if available.

Table 2. HAZARD SPECIFIC VULNERABLE AREAS AND POPULATIONS

Hazard [delete/insert as required]	Vulnerable areas that may require evacuation (list relevant areas in [community/district])		Populations that may require evacuation (approximate total numbers in each area listed)	
	Probable	Additional Possible	Probable	Additional Possible
Hurricane				
Flood				
Landslide				
Storm Surge				
Volcanic Eruption				
Tsunami				
Earthquake				
Chemical release/spill				
Dam failure				
Terrorist attack				
TOTAL				

Table 3. SPECIAL NEEDS POPULATIONS IN INSTITUTIONS (E.G. SCHOOLS, HOMES, PRISON, HOSPITAL) AND VISITOR POPULATIONS							
Name and address of Institution	Institution Function	Institution Population	Hazard vulnerability(s)	Contact person and data (tel., cell, email, radio)	Needs to be met during evacuation (to be confirmed at evacuation watch stage)		
					internally	under 3rd party agreement/MOU	NEOC support required

Table 4. SPECIAL NEEDS INDIVIDUALS IN THE [COMMUNITY/DISTRICT]							
Individual name and address	Special need(s)	Hazard vulnerability	Contact information (tel., cell, email)	Contact information for next of kin, caregiver or other specified support (name, tel., cell, email)	Needs to be met during an evacuation (to be confirmed when evacuation watch issued)		
					internally (next of kin, caregiver etc.)	with volunteer support (by MOU)	with NEOC support

Table 5. HAZARD SPECIFIC VULNERABILITY OF CRITICAL FACILITIES										
	✓✓✓ denotes high vulnerability			✓✓ denotes medium vulnerability			✓ denotes low vulnerability			
	Hurricane	Flood	Storm surge	Tsunami	Volcanic Eruption	(Delete/ Specify others)				
Police station										
Fire station										
Utility asset (specify)										
Hospital										
Health centre										
Airport										
Seaport										
Delete/ Specify others										

Table 6. CONTACT DATA FOR EMERGENCY MANAGEMENT ORGANISATIONS IN [COMMUNITY/DISTRICT]				
Agency name	Person name	Position	Tel./cell phone no	email address
Police				
Fire				
Water utility				
Power utility				
Telephone utility				
DEC				
Etc.				

Table 7. SERVICE PROVIDED AND CONTACT DATA FOR COMMUNITY VOLUNTEER ORGANISATIONS IN [COMMUNITY/DISTRICT]					
Organisation name	No. of active members	Services provided	Organisation Leader and alternate in [Community/District]	Contact data	MOU in place
			1. 2.	1. 2.	<input type="checkbox"/> Yes <input type="checkbox"/> No
			1. 2.	1. 2.	<input type="checkbox"/> Yes <input type="checkbox"/> No
			1. 2.	1. 2.	<input type="checkbox"/> Yes <input type="checkbox"/> No
			1. 2.	1. 2.	<input type="checkbox"/> Yes <input type="checkbox"/> No
			1. 2.	1. 2.	<input type="checkbox"/> Yes <input type="checkbox"/> No
			1. 2.	1. 2.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Table 8. LOCALLY AVAILABLE RESOURCES (HEAVY EQUIPMENT, CHAINSAWS, DINGHIES, etc.)			
Resource description	Owner name	Contact information	MOU in place
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

Table 9. TRANSPORTATION AVAILABLE WITHIN [COMMUNITY/DISTRICT] (insert rows and transportation type as necessary)					
Transportation Type (use separate row for each owner)	Owner/Contact name	Contact data (tel., cell, email, radio)	Quantity	Total Capacity	MOU in place
Aircraft					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
Ferry					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
Watercraft					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
Public Transit					<input type="checkbox"/> Yes <input type="checkbox"/> No
School Buses					<input type="checkbox"/> Yes <input type="checkbox"/> No
[Community] Minibus Association					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No

Table 9. TRANSPORTATION AVAILABLE WITHIN [COMMUNITY/DISTRICT] (insert rows and transportation type as necessary)

Transportation Type (use separate row for each owner)	Owner/Contact name	Contact data (tel., cell, email, radio)	Quantity	Total Capacity	MOU in place
Ambulance					<input type="checkbox"/> Yes <input type="checkbox"/> No
Government owned vehicles					<input type="checkbox"/> Yes <input type="checkbox"/> No
Private vehicles ¹²					<input type="checkbox"/> Yes <input type="checkbox"/> No
Other _____					<input type="checkbox"/> Yes <input type="checkbox"/> No

¹² Estimate number of functional privately owned vehicles in [community/district] that are likely to be used for self evacuation

Table 10. COMMUNICATIONS INFRASTRUCTURE IN [COMMUNITY/DISTRICT]			
Communication Type	Channel	Owner/Contact Information	MOU in place
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
Refer to National Disaster Plan for further details			

Table 11. RUNWAYS THAT MAY BE USED FOR REMOVAL OF PERSONS FROM [COMMUNITY/DISTRICT] BY AIR					
Length	Width	Surface quality	Latitude	Longitude	Limitations

Table 12. JETTIES THAT MAY BE USED FOR REMOVAL OF PERSONS FROM [COMMUNITY/DISTRICT] BY SEA					
Length	Width	Capacity	Latitude	Longitude	Limitations

Table 13. TRAFFIC PLAN FOR [COMMUNITY/DISTRICT]		
ROUTES, DESTINATIONS AND HAZARD VULNERABILITIES		
Route	Location	Hazard vulnerability
Primary Route:		
Primary Destination:		
Alternate route:		
Alternate Destination:		

Table 14. TRAFFIC CONTROL ON EVACUATION ROUTE	
Location	Type of Control
	<input type="checkbox"/> Mobile Patrols <input type="checkbox"/> Traffic Directional Control <input type="checkbox"/> Pilot Cars
	<input type="checkbox"/> Mobile Patrols <input type="checkbox"/> Traffic Directional Control <input type="checkbox"/> Pilot Cars
	<input type="checkbox"/> Mobile Patrols <input type="checkbox"/> Traffic Directional Control <input type="checkbox"/> Pilot Cars
	<input type="checkbox"/> Mobile Patrols <input type="checkbox"/> Traffic Directional Control <input type="checkbox"/> Pilot Cars
	<input type="checkbox"/> Mobile Patrols <input type="checkbox"/> Traffic Directional Control <input type="checkbox"/> Pilot Cars

Table 15. PERIMETER AND ACCESS CONTROL¹³ ON OUTER PERIMETER	
Location	Type of Control
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block

Table 16. PERIMETER AND ACCESS CONTROL ON INNER PERIMETER	
Location	Type of Control
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block <input type="checkbox"/> Road closure
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block <input type="checkbox"/> Road closure
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block <input type="checkbox"/> Road closure
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block <input type="checkbox"/> Road closure
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block <input type="checkbox"/> Road closure
	<input type="checkbox"/> Checkpoint <input type="checkbox"/> Road block <input type="checkbox"/> Road closure

¹³ This will be instituted to minimise conflicts between evacuation and other traffic, by establishing checkpoints, road blocks or road closures at specified locations.

Table 17. POSSIBLE ASSEMBLY POINT LOCATIONS AND THEIR HAZARD VULNERABILITIES

Assembly location	Point	Name and contact data of owner/manager	Capacity for persons	Capacity for vehicles (when fully occupied with persons)	Hazard vulnerabilities	Comments (limitations, special features. etc.)

Table 18. AVAILABILITY AND HAZARD VULNERABILITY OF OPEN SPACES (FOR CAMP SITES, TEMPORARY HOLDING SPACES, SAFER PLACES, ETC.)

Open space name/location	Name and contact data of space manager	Capacity	Hazard vulnerabilities	Comments (limitations e.g. sloping; special features e.g. paved, accessible to vehicles, etc.)

Table 19. AVAILABILITY AND HAZARD VULNERABILITY OF SHELTERS					
Shelter ID no.	Name/location	Name and contact data of shelter manager	Capacity	Hazard vulnerabilities	Comments (limitations, special features, etc.)

[Table 20. AVAILABILITY AND HAZARD VULNERABILITY OF PLACES OF LAST RESORT					
Location ID no.	Name/location	Name and contact data of location manager	Capacity	Hazard vulnerabilities	Comments (limitations; special features, etc.)
					e.g. for emergency services only]

Table 21. ASSIGNMENT OF BUSES TO ASSEMBLY POINTS WITHIN THE COMMUNITY

Affected area	Area population	Estimated no. requiring public transportation assistance	Designated Assembly/ Muster Point(s)	No. of buses required	Driver names	Driver cell no. and email

Table 22. ESTIMATED EVACUATION ROUTE CLEARANCE TIME FROM DESIGNATED ASSEMBLY POINTS TO SPECIFIED SHELTERS (HOURS)												
	To: [e.g. Secondary School]			To:			To:			To:		
From: [e.g. Health centre]	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min
From:	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min
From:	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min

Table 23. CONTENTS OF [COMMUNITY/DISTRICT] EVACUATION KITS	
Item	Responsibility for storage and dissemination
Road signs	Police, Ministry of Communications, Works and Public Utilities
Grease pens/stickers to mark evacuated premises	DEC
Loud hailers	Police, Fire, DEC
Mobile PA systems	Police, Fire
Forms for documentation of response, including indemnity forms to be signed by persons who refuse to evacuate and evacuee registration forms, pens	DEC

APPENDIX 2. HAZARD SPECIFIC VULNERABILITY OF COMMUNITIES/DISTRICTS

District/Community name ✓✓✓ denotes high vulnerability ✓✓ denotes medium vulnerability ✓ denotes low vulnerability	Hurricane	Flood	Storm Surge	Volcanic eruption	Etc.				

APPENDIX 3. FAMILY EVACUATION PLAN

(based on the Belize National Hazard Management Plan, Vol. 5 Evacuation Plan, 2003)

- 1) Develop a family disaster preparedness plan before the event. Familiarise yourself with the vulnerabilities of your location and building to hazards such as hurricane, flood, storm surge, tsunami, hazmat spill, fire, and volcanic eruption. Some areas are extremely vulnerable to high winds and flooding. These areas include the exposed hillsides, coastal areas, low-lying areas and communities that can be cut off. If you live in any of these areas, your hurricane preparedness plan should include an evacuation plan to a safer location. Consult your District Disaster Management Committee if necessary, for guidance.
- 2) Be familiar with your [District/Community] Evacuation Plan, in particular assembly points and evacuation routes.
- 3) Assist special needs persons in your community to the extent that you are able, with evacuation preparations and/or transportation.
- 4) When ordered to evacuate do not wait or delay departure. If possible, leave before local officials issue an evacuation order for your area. Any delay in starting your evacuation can result in significantly longer travel time as traffic congestion worsens.
- 5) Select an evacuation destination nearest to your home, preferably in the same district if this is safe or in another district close to yours. In choosing your destination, keep in mind that hotels are likely to be filled.
- 6) If you decide to evacuate to another district, be prepared to wait in traffic. If large numbers of people must evacuate, this will cause delays and congestion along the highways. The greater the threat, the greater the probability of traffic jams and extended travel time.
- 7) If possible, make arrangements to stay with a friend or relative who resides close to your home and who will not have to evacuate. Discuss with your intended host the details of your family evacuation plan well before the beginning of the hurricane season. Ask your intended host what items you will need to take along and what you will be expected to do (and not do) to make your sheltering with them less burdensome.
- 8) If a hotel is your final intended destination during an evacuation, make reservations before you leave. The longer you wait to make reservations, even if an official evacuation order has not been issued for your area, the less likely you are to find hotel vacancies.
- 9) If you are unable to stay with friends or family and no hotel rooms are available, then you will need to go to a hurricane shelter. Remember that shelters are not designed for comfort. Also, shelters will not take pets. You will need to take the following items (emergency kit) with you to the shelter:
 - (a) Water - at least 1 gallon daily per person for three to five days.
 - (b) Food - at least enough for three to five days.
 - non-perishable packaged or canned food
 - food for babies
 - snacks
 - manual can opener
 - disposable plates and cups

- (c) Blankets and Pillows
- (d) Clothing
- (e) First Aid Kit/Medicines
- (f) Special items for babies, elderly, ill and disabled
- (g) Toiletries - soap, toilet paper, feminine pads, moisture wipes
- (h) Flashlight and batteries
- (i) Radio (battery operated)
- (j) Money
- (k) Keys
- (l) Toys, books, games
- (m) Important documents - in waterproof container. This includes insurance, medical records, bankbooks, social security card, passport. If possible take along photos of your furniture and valuables.
- (n) Tools (hammer, pliers, knife)
- (o) Fill vehicle fuel tank
- (p) Leave as soon as possible, and during daylight hours if possible. When traveling, avoid flooded roads and watch for bridges that are flooded or washed out. Do not drive around barricades and obey all traffic rules.

WHAT TO DO WHEN TOLD TO EVACUATE

- 1) Account for all members of your family.
- 2) Listen to your radio/television.
- 3) Prepare your evacuation kit.
- 4) Help a neighbor or someone you know who may require special assistance with infants, elderly and differently able persons.
- 5) Tie down, move or secure verandah and yard furniture. Secure garbage cans, TV antennae and other loose objects.
- 6) Securely lock up your home before you leave.
Unplug appliances and turn off electricity and the main water valve.
Turn off butane tank, water source and electricity.
- 7) Leave your pets in a safe place with sufficient food and water. Consider whether it is best to release your pet as animals have a natural instinct to survive.

APPENDIX 4. EMERGENCY CONTACT LIST (NATIONAL LEVEL)

Agency	Contact name	Office phone	Cell phone	Email	Channel/ frequency
Police					
Fire					
National Disaster Committee					
NEOC Chair					
EOC Chair					
DEOC Chair					
Transportation subcommittee					
Education, Communication and Warning subcommittee					
Welfare and Relief Supplies subcommittee					
Medical and Public Health subcommittee					
Housing and Shelter Subcommittee					
Foreign Assistance Subcommittee					
[District] Emergency Committee					
[District] Emergency Committee					
[District]					

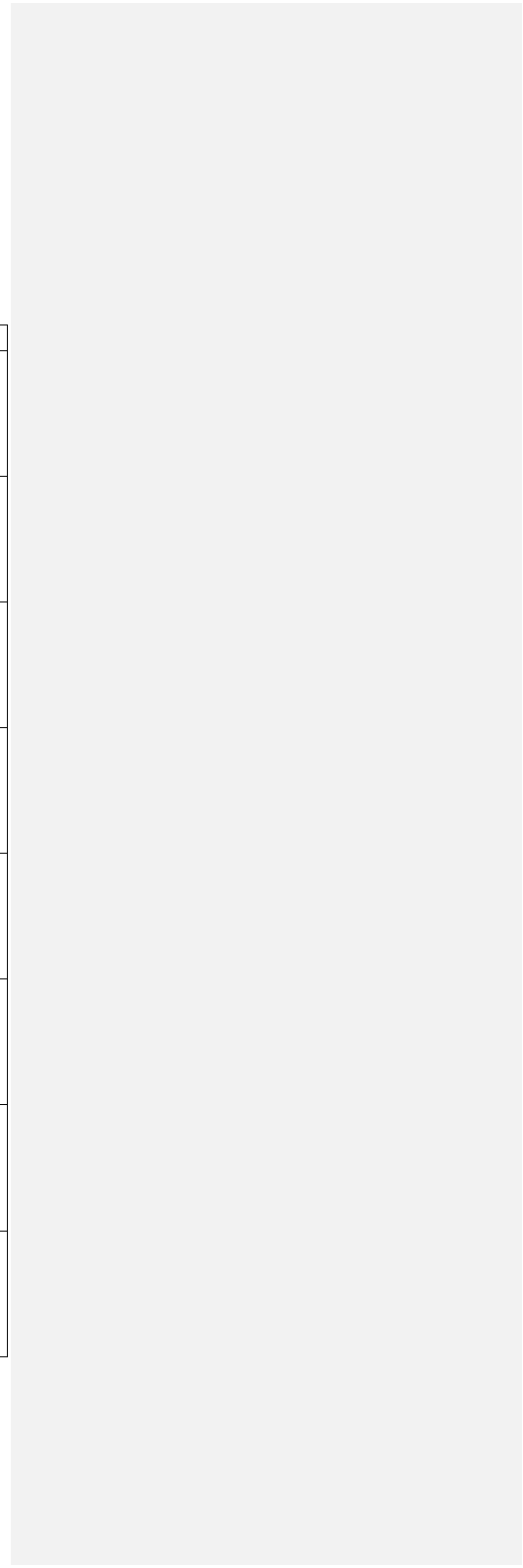
Agency	Contact name	Office phone	Cell phone	Email	Channel/ frequency
Emergency Committee					
etc.					

APPENDIX 5. ACTIVITY LOG (COMMUNITY/DISTRICT LEVEL)

Incident name _____ Date _____

Name and signature _____

Serial	Time	Information



APPENDIX 6. REGISTRATION FORM FOR EVACUEES AT ASSEMBLY OR OTHER COLLECTION POINTS (use one form in triplicate per vehicle, for 1. Dispatcher 2, Driver and 3. Registration Clerk at destination)

Incident name _____ **Date** _____ **Time** _____ **Collection Point** _____

Collection Point Registration clerk name and signature _____ **Dispatcher name and signature** _____

Driver name and signature _____ **Cell no** _____ **Vehicle no** _____ **Destination** _____

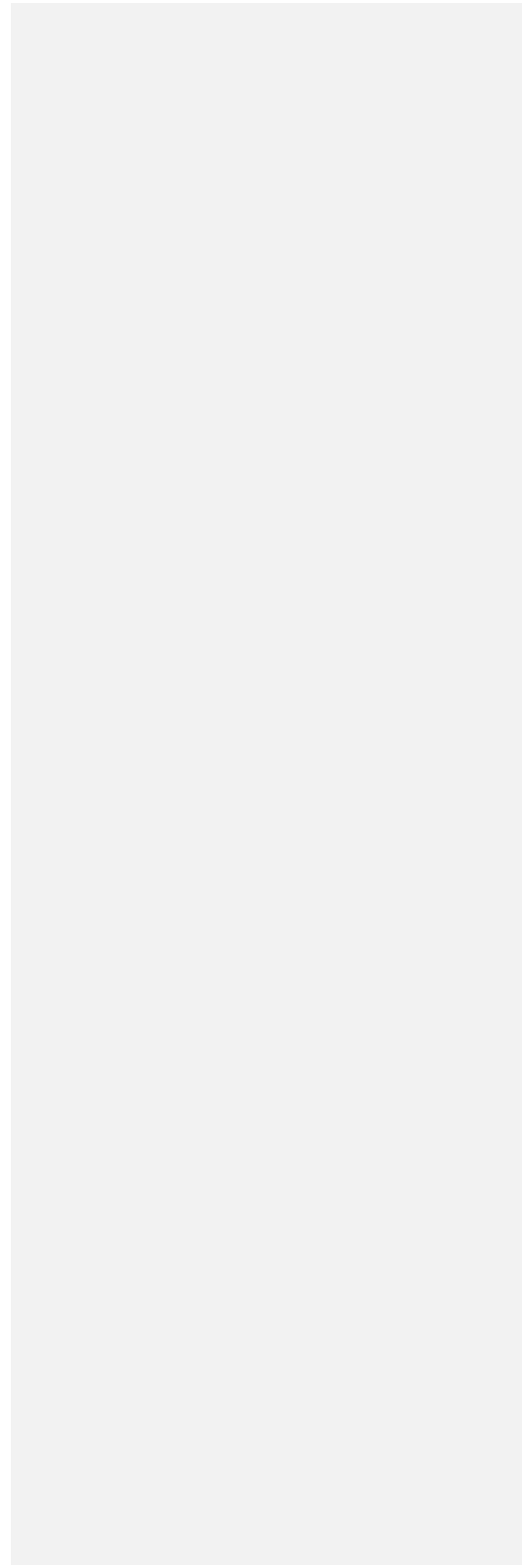
Accompanying crew _____

Stops permitted Yes No **Destination Registration Clerk name and signature** _____

No.	Evacuee Name (head of household or single individual)	No. of adult dependents	No. of child dependents	Special needs (e.g. unaccompanied minor, medical or other support required)	✓ if evacuee(s) not going to vehicle destination
1					
2					
3					
4					
5					
6					
7					
8					
Total					

APPENDIX 7. TOURISM EVACUATION PLAN

(Insert plan).



APPENDIX 8. EVACUATION CHECKLISTS (modified from State of Alaska Division of Homeland Security and Emergency Management (date unknown) and Belize Evacuation Plan (2003))

General

✓	<i>Action Item</i>	Assigned
	PLANNING:	
	1. Monitor threat, and advise NDC/Director accordingly.	
	2. Activate NEOC/EOC and DEOCs as required.	
	3. Determine area(s) at risk: <ul style="list-style-type: none"> ▪ Determine population of risk area(s) ▪ Identify any special needs facilities and populations in risk area(s) 	
	4. Activate potentially threatened DEC's.	
	5. Determine evacuation routes for risk area(s) & check the status of these routes and suitability of possible Assembly Points.	
	6. Determine traffic control requirements for evacuation routes.	
	7. Estimate public transportation requirements & select Assembly Points to be used.	
	8. Determine temporary shelter requirements & select preferred shelter locations.	
	EVACUATION WATCH:	
	9. Issue evacuation watch to special needs facilities, Ministry of Tourism, Ministry of Foreign Affairs, special needs populations within the risk areas & advise them to activate evacuation, transportation & reception arrangements. Determine if requirements exist for additional support from public authorities or other parties.	
	10. Alert response agencies responsible for evacuation to be on standby.	
	11. Advise all DEC's of situation.	
	12. Brief leadership of all response agencies and DEC's.	
	13. Issue evacuation watch to the public, clearly identifying areas at risk.	
	14. Finalise traffic control plans & stage traffic control devices at required locations.	
	15. Coordinate with special needs facilities and special needs populations in the risk areas regarding precautionary evacuation.	
	16. Alert shelter managers of shelters selected for use to prepare shelters.	
	17. Coordinate with transportation providers to ensure vehicles & drivers will be available when and where needed.	
	18. Coordinate with school districts regarding closure of schools.	
	19. Set up and test field communications.	
	20. Advise SRCC that may be affected, of evacuation plans.	
	EVACUATION WARNING AND EXECUTION:	
	21. Advise SRCC and the local DEC(s) that an evacuation warning will be issued.	
	22. Disseminate evacuation warning to special needs facilities and populations. Provide assistance in evacuating, if needed.	
	23. Disseminate evacuation warning to the public through available early warning systems, in appropriate languages, clearly identifying areas to be evacuated, and providing information such as: <ul style="list-style-type: none"> ▪ What should be done to secure premises ▪ What evacuees should take with them ▪ Where evacuees should go & how should they get there ▪ Provisions for special needs persons and those without transportation 	
	24. Mobilise and dispatch Assembly Point teams.	

✓	<i>Action Item</i>	Assigned
	25. Mobilise transportation.	
	26. Staff and open temporary shelters	
	27. Provide traffic control along evacuation routes and implement procedures for dealing with vehicle breakdowns on such routes.	
	28. Provide transportation assistance to those who require it.	
	29. Provide emergency medical care to those who require it.	
	30. Arrange for registration of self-evacuees at designated locations or online.	
	31. Provide security in or control access to evacuated zones.	
	32. Provide Situation Reports on evacuation to the NEOC/EOC.	
	STAND DOWN OF EVACUATION	
	33. File all forms and secure.	
	34. Secure signs, loud hailers, communications equipment.	
	35. Transport teams out of evacuation area to designated locations/shelters.	
	36. Park transportation assets at designated strategic safe areas.	
	RETURN OF EVACUEES	
	36. If evacuated areas have been damaged, reopen roads, eliminate significant health and safety hazards, and conduct damage assessments.	
	37. Determine requirements for traffic control for return of evacuees.	
	38. Determine requirements for and coordinate provision of transportation for return of evacuees.	
	39. Advise DEC(s) that return of evacuees will begin.	
	40. Issue the all clear; advise evacuees through the media that they can return to their premises; indicate preferred travel routes.	
	41. If evacuated areas have sustained damage, provide public information that addresses: <ul style="list-style-type: none"> • Documenting damage & making expedient repairs by returning evacuees; • Caution in reactivating utilities and damaged appliances; • Cleanup & removal/disposal of debris; and • Recovery programs available. 	
	42. Provide traffic control for return of evacuees.	
	43. Provide transportation for return of eligible persons including special needs populations to the evacuation zone; maintain transportation logs.	
	44. Coordinate temporary housing for evacuees that are unable to return to their residences.	
	45. Coordinate with special needs facilities regarding return of evacuees to those facilities.	
	46. Terminate temporary shelter and mass care operations.	
	47. Maintain access controls for areas that cannot be safely reoccupied.	

At Assembly Points

✓	<i>Action Item</i>	Assigned
	1. Organise Assembly Point workers and site.	
	2. Organise pedestrian and vehicle flow.	
	3. Register evacuees.	
	4. Maintain communication with On-scene Command and NEOC to confirm evacuation route, destination, and whether and where stops are permitted.	
	5. Assign evacuees to vehicles.	
	6. Dispatch vehicles.	

Post-evacuation activities

✓	<i>Action Item</i>	Assigned
	1. Compile all transportation logs and calculate payments.	
	2. Collect and secure all signs, communication equipment, evacuation kits.	
	3. Collect registration forms and submit to NEOC/EOC/NEMA/NDMD.	
	4. Analyse data (number of persons moved, vehicles used, shelters used, timings, etc.).	
	5. Debrief and document lessons learnt.	
	6. Review and update National and [Community/District] Evacuation Policy and Plans.	
	7. Undertake PEA and training as required.	

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