National Disaster Risk Management Framework 2010

Vision: Safe, Resilient and Prepared Communities in Palau

October 2010
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National Disaster Risk Management Framework 2010

Vision:
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October 2010
ADOPTING THE 2010 PALAU NATIONAL DISASTER RISK MANAGEMENT FRAMEWORK AND REPEALING EXECUTIVE ORDER NO. 166–99


WHEREAS, the 2010 Palau National Disaster Risk Management Framework lays down a comprehensive response and recovery arrangement and sets up the mechanism for incorporating disaster risk reduction and mitigation measures to achieve sustainable national development planning mandated in the 2020 Palau National Master Development Plan.

WHEREAS, by adopting the 2010 Palau National Disaster Risk Management Framework there is no longer a need for September 18, 1998 Republic of Palau National Disaster Management Plan and therefore Executive Order No.166–99 should be repealed.

WHEREAS, accelerated global warming exacerbates climate variability which increases the frequency and severity of natural disasters in the Pacific.

WHEREAS, the dangers arising from disasters and national emergencies imperil a wide range of interests and require an equally broad response.

WHEREAS, all ministries and agencies of the Executive Branch must be prepared to coordinate efforts and cooperate in order to effectively meet the challenges posed by disasters and national emergencies.

NOW THEREFORE, by virtue of the authority vested in me as President of the Republic of Palau, pursuant to the Constitution and applicable laws of the Republic, it is hereby ordered as follows:

1. The 2010 Palau National Disaster Risk Management Framework is adopted in its entirety.
2. Executive Order No.166–99 is hereby repealed.
3. The Vice President as Chairman of the National Emergency Committee shall distribute copies of the 2010 Palau National Disaster Risk Management Framework and Executive Order No.287, adapted herein, to all Ministers and members of the National Emergency Committee.
4. All ministries and members of the National Emergency Committee maintain a copy of the 2010 Palau National Disaster Risk Management Framework and Executive No.287 in a readily accessible location within their respective ministries and offices.
5. All ministries and members of the National Emergency Committee must ensure all plans and procedures required of all ministries and the National Emergency Committee be developed, tested, and ready for implementation during any national disasters and emergencies.

IN WITNESS THEREOF, I have hereunto set my hand and affix my official seal this 19th day of October, 2010.

His Excellency Johnson Toribiong  
President  
Republic of Palau
FOREWORD

As a developing nation, we must improve our economic base, provide safety and security to our citizens, and protect our cultural and traditional assets. However, a disaster can sometimes destroy or damage our efforts towards economic development. Therefore, the ultimate responsibility to prepare for and mitigate against all types of disasters or emergencies, falls on the whole government and the whole country.

This responsibility should be shared with communities, the private sector, and everybody, to take protective steps to avert the loss of lives, human suffering, property damage and safeguard the overall economic well-being of our nation.

Protection of lives, property and our livelihood is a national priority for my administration. Therefore, I am pleased to present to you the 2010 Palau National Disaster Risk Management Framework. The Framework provides the basic structure of how the nation responds to disasters and emergencies. More importantly, the Framework also provides the mechanism to make our nation stronger and more resilient to disasters – natural and human-induced.

I am tasking all national and state government agencies, NGOs and communities to work proactively and to collaborate together to achieve our vision stated in the Framework, “Safe, Resilient and Prepared Communities in Palau”. I also am urging all individuals and the private sector to take active roles in preparing for, preventing and mitigating the negative impact of disasters to their homes and establishments. Disasters affect us all and it should be everybody’s business.

I pray that we will not have to activate our national disaster response procedures, but in the event we have to, we are confident that we are ready, as a nation.

God Bless the Republic of Palau.

His Excellency Johnson Toribiong
President
Republic of Palau
I am pleased to present to you the 2010 Palau National Disaster Risk Management Framework for Disaster Management and Disaster Risk Reduction, 2010. The DRM framework, for short, provide for disaster risk management structures and mechanisms to facilitate improved emergency/disaster preparedness, response, and recovery including integration of a more effective disaster risk reduction considerations into the national development planning and budgetary process.

Mounting frequency and severity of natural disasters as a result of accelerated climate change conditions have placed pressures at the global, regional and national level, to shift from the traditional concept of disaster response and recovery to a more pro-active approach of disaster risk reduction, as reflected in the theme of the Pacific Disaster Risk Reduction and Disaster Management Framework for Action 2005–2015 and the Hyogo Framework for Action 2005–2015. Such disasters challenge us as a nation to strengthen the resilience of our communities in the face of extreme meteorological and geological, hydrological, and technological events.

This Framework is the result of an effort by the National Emergency Committee (NEC) and NEMO with the assistance of the Pacific Islands Geoscience Commission (SOPAC) to review 1999 National Disaster Plan. Additionally, in February 2010, after the Chile earthquake, I had tasked the NEC and NEMO to review our current national response mechanism and make necessary changes to improve coordination of warning and response to all types of hazards. Palau appreciated the efforts spent into developing this framework.

I strongly recommend that all government agencies, non-government organizations, private sector, state governments and local communities tasked with emergencies and disasters roles and responsibilities to become familiar with arrangements in the Framework. Develop the necessary procedures and plans and exercise them to ensure that, “Palau is ready at all times to respond effectively. Ultimately, our goal is to ensure protection of lives and the environment as well the promotion of sustainable development”.

As the Chairman of the National Emergency Committee, I am responsible for the DRM Framework activities in the nation, with the assistance of the NEC and National Emergency Management Office. I ask all government agencies, non-profit organizations, the private sector and above all individuals to be serious, prepare their families and their communities and to collaborate with the NEC and NEMO in achieving our vision, “Safe, Resilient and Prepared Communities in Palau.”
# TABLE OF CONTENTS

Foreword.................................................................................................................. iii  
Glossary of Terms..................................................................................................... 3  
Acronyms................................................................................................................. 5  

## Part 1 General......................................................................................................... 6  
1.1 Background.......................................................................................................... 7  
1.2 Outline of the NDRMF........................................................................................ 7  
1.3 National Hazards Profile..................................................................................... 7  
1.4 Vision.................................................................................................................. 8  
1.5 Implementation of the Framework...................................................................... 9  
1.6 Plan Development and Maintenance.................................................................... 9  
1.7 Authorities and References................................................................................... 9  

## Part 2 New Framework............................................................................................ 10  
2.1 Plan Purpose and Legislative Requirements....................................................... 11  
2.2 Objectives.......................................................................................................... 11  
2.3 Disaster Risk Management in the Context of Development Planning and Decision-Making........................................................................................................ 11  
2.4 Relationship with Other Plans........................................................................... 12  
2.5 The Disaster Risk Management Model.................................................................. 12  
2.5.1 General........................................................................................................... 12  
2.5.2 The DRM Model............................................................................................. 13  
2.6 Disaster Risk Management in the Pacific Region................................................ 14  
2.7 Key Guiding Principles for Disaster Risk Management......................................... 14  

## Part 3 Disaster Management.................................................................................. 16  
3.1 General.............................................................................................................. 17  
3.2 National Disaster and Emergency Management Structure................................. 17  
3.3 Response Roles and Responsibilities, and Membership....................................... 18  
3.3.1 Disaster Executive Council............................................................................. 18  
3.3.2 Role of the DEC........................................................................................... 18  
3.3.3 Membership of the DEC............................................................................. 18  
3.4 National Emergency Committee.......................................................................... 18  
3.4.1 Role of the NEC............................................................................................ 19  
3.4.2 Membership of the NEC............................................................................. 19  
3.5 National Emergency Operations Center (NEOC)............................................... 20  
3.5.1 Functions of NEOC...................................................................................... 20  
3.6 National Disaster Coordinator (NDC).................................................................. 20  
3.7 Central Control Group......................................................................................... 21  
3.8 Incident Command Posts.................................................................................... 21  
3.9 Lead Response Agency (LRA) and Support Response Agencies (SRA).............. 21
3.10 Disaster Preparedness........................................................................................................... 22
  3.10.1 Level of Preparedness......................................................................................................... 23
  3.10.2 Emergency Communications.............................................................................................. 23
  3.10.3 National Disaster Management Training Plan................................................................. 23
  3.10.4 Education and Awareness.................................................................................................. 23
  3.10.5 Department and Agency Response Plans........................................................................... 24
  3.10.6 Warning and Alert Systems............................................................................................. 24
  3.10.7 Evacuation Shelters.......................................................................................................... 24
  3.10.8 Exercises and Drills.......................................................................................................... 25
  3.10.9 Evaluation of Disaster Preparedness Programs............................................................... 25

3.11 Disaster Response................................................................................................................... 25
  3.11.1 Levels of Response........................................................................................................... 25

3.12 Declaration of a State of Emergency or Disaster...................................................................... 26

3.13 Damage Assessments............................................................................................................ 26
  3.13.1 Initial Damage Assessment (IDA).................................................................................... 26
  3.13.2 Comprehensive Damage Assessment (CDA)................................................................. 27
  3.13.3 Standard Operating Procedures...................................................................................... 27

3.14 Activation of Response Arrangements.................................................................................... 28

3.15 Agency Response Plans/Procedures....................................................................................... 29

3.16 Media Broadcasts................................................................................................................ 29

3.17 Post Disaster Response Review............................................................................................. 29

3.18 Debriefing.................................................................................................................................. 29

3.19 Review of Response Arrangements and Procedures............................................................... 30

3.20 Disaster Relief....................................................................................................................... 30

3.21 International Assistance........................................................................................................ 31
  3.21.1 Customs and Quarantine.................................................................................................. 31

3.22 Financial Considerations........................................................................................................ 31

3.23 Continuity of Relief Efforts................................................................................................... 32

3.24 Disaster Recovery................................................................................................................ 32

Part 4 Disaster Risk Reduction.................................................................................................... 33
  4.1 General................................................................................................................................... 34
  4.2 Disaster Risk Reduction Approaches.................................................................................... 35
  4.3 Ministry of Finance – Bureau of Budget and Planning.......................................................... 35
  4.4 DRR Role of the NEC.......................................................................................................... 36
  4.5 Hazard Mitigation Sub-Committee....................................................................................... 36
    4.5.1 Hazard Mitigation Sub-Committee Membership............................................................ 36
    4.5.2 Special Annual Meeting of the HMSC........................................................................... 37
    4.5.3 Functions of the HMSC................................................................................................. 37
  4.6 Application of Disaster Risk Reduction Tools and Technologies......................................... 37
  4.7 Disaster Risk Reduction Coordination Roles.......................................................................... 38

Appendices.................................................................................................................................... 40
GLOSSARY OF TERMS

Climate Change Adaptation: the reduction of vulnerability to the increasing risks of climate change and climate variability through adaptation processes and strengthening human and institutional capacities to assess, plan and respond to the challenges.

Command: the direction of members and resources of an organization in the performance of its agreed roles and tasks. The authority to command is established in legislation or by agreement within an organization.

Control: the direction of emergency management activities in a designated emergency situation. The authority for control is established in legislation or in an emergency (or disaster) plan, and carries with it responsibility for tasking and coordinating other organizations in accordance with the needs of the situation.

Contingency Planning: the process of describing roles/responsibilities and arrangements for the performance of key response functions specific to a designated major threat (e.g. tsunamis, droughts, major fires, hazardous materials incidents, airport/port emergencies, animal/plant disease, marine pollution, etc.).

Coordination: the bringing together of organizations to ensure effective emergency management response and recovery, with primary concern for systematic acquisition and application of resources (people, material, equipment, etc.) in accordance with requirements imposed by the threat or impact of an emergency or disaster.

Disaster: a serious disruption of the functioning of a community or a society, causing widespread human, material, economic or environmental losses which exceed the ability of the affected community or society to cope using its own resources. A disaster is a function of the risk process. It results from the combination of hazards, conditions of vulnerability and insufficient capacity or measures to reduce the potential negative consequences of risk.

Disaster Management (also known as Emergency Management): the organization and management of resources and responsibilities for dealing with all aspects of emergencies/disasters, particularly preparedness, response, relief and recovery.

Disaster Risk Management: the performance of all forms of activities, including structural and non-structural measures, to avoid (prevention) or to limit (mitigation and preparedness) risks and lessen the impacts of natural, man-made, environmental and technological disasters.

Disaster Risk Reduction: the minimizing of vulnerabilities and disaster risks to avoid or reduce the adverse impacts of hazards within the broad context of sustainable development.

Emergency: an event that requires a multi-agency response. The management of an emergency requires a well-coordinated approach but can be managed with the resources that are available.

Hazard: a potential or existing condition that may cause harm to people or damage to property or the environment.

Hazard Mitigation: measures designed to reduce vulnerability by preventing or reducing the adverse impacts of hazards. Mitigation is wide ranging and covers community-based risks as well as underlying risks to national development. It operates within the broad context of sustainable development.

Incident: a routine event that is responded to by a single agency or a small number of agencies. A routine event may not need much resources and coordination at the incident scene.

Lead Response Agency: an agency designated as primarily responsible for the management of a specific function or for the control role in a specified type of event.

National Emergency Operations Center (NEOC): a facility from which the control of national emergency or disaster operations and coordination of resources are carried out.
**Preparedness:** the arrangements and systems to ensure that communities are prepared should an emergency occur and all those resources and systems which are needed to cope with the effects can be efficiently mobilized and deployed.

**Prevention:** the regulatory and physical measures to ensure that disasters are prevented, or their effects mitigated. While it is not possible to prevent all risks, there are many examples of activities such as health-related and fire prevention education programs that can eliminate risks.

**Recovery:** the coordinated process of supporting emergency-affected communities in reconstruction of the physical infrastructure and restoration of emotional, social, economic and physical well-being.

**Relief:** the coordinated process of providing humanitarian relief and basic community support services during and immediately after the impact of a disaster.

**Response:** the actions taken in anticipation of, during, and immediately after, an emergency or disaster to ensure that its effects are minimized and that people affected are given immediate relief and support.

**Risk:** the likelihood of harmful consequences arising from the interaction of hazards and vulnerable elements (people, infrastructure or the environment).

**Standard Operating Procedures:** the prescribed routine action to be followed by staff during emergency operations.

**Support Response Agency:** an agency designated in a plan as undertaking a support role to the Lead Agency in relation to a specific function or in a specified type of event.

**Vulnerability:** the extent to which a community’s structure, services or environment is likely to be damaged or disrupted by the impact of a hazard.
ACRONYMS

BoA1 Bureau of Agriculture
BoA2 Bureau of Aviation
BoBP Bureau of Budget and Planning
BoDA Bureau of Domestic Affairs
BoPS Bureau of Public Safety
BTA Belau Tourism Association
CCG Central Control Group
CDA Comprehensive Damage Assessment
DEC Disaster Executive Council (replacing CLT)
DRM Disaster Risk Management
DRR Disaster Risk Reduction
EDP Economic Development Plan
EIA Environmental Impact Assessment
EIS Environmental Impact Statement
EQPB Environmental Quality Protection Board
EU EDF 9 9th European Development Fund
HFA Hyogo Framework for Action
HMSC Hazard Mitigation Sub-Committee
IC Incident Commander
ICP Incident Command Post
IDA Initial Damage Assessment
IFRC International Federation of Red Cross and Red Crescent Societies
ISDR International Strategy for Disaster Reduction
IWRM Integrated Water Resource Management
LRA Lead Response Agency
MAP 2001 Presidential Management Action Plan
MoE Ministry of Education
MoH Ministry of Health
MoU Memorandum of Understanding
MPIIC Ministry of Public Infrastructure, Industries and Commerce
NBSAP National Biodiversity Strategy and Action Plan
NDC National Disaster Coordinator
NDP 1999 Palau National Disaster Plan
NEC National Emergency Committee
NEMO National Emergency Management Office
NEMS National Environment Management Strategy
NEOC National Emergency Operation Center
NGO Non-Governmental Organization
NPC National Planning Commission
NWS National Weather Service
OERC Office of Environmental Response and Coordination
PAN Protected Areas Network
PCC Palau Community College
PNCC Palau National Communications Corporation
PNDRMF Palau National Disaster Risk Management Framework (replacing the NDP)
PNMDP 2020 Palau National Master Development Plan
PRCS Palau Red Cross Society
SOP Standard Operating Procedures
SOPAC Pacific Islands Applied Geoscience Commission
SRA Support Response Agency
WSP Water Safety Plan
WMO World Meteorological Organization
1.1 Background

This new Palau National Disaster Risk Management Framework 2010 (hereinafter referred to as the ‘PNDRMF’ or ‘Framework’) provides for the strengthening of national disaster risk management structures and mechanisms to support improved disaster/emergency preparedness, response and recovery as well as the more effective integration of disaster risk considerations into the national development planning, including budgetary allocation processes.

A review of the 1999 National Disaster Plan (NDP) provided the foundation for the new Framework.

1.2 Outline of the NDRMF

The National Disaster Risk Management Framework 2010 replaces the 1999 National Disaster Plan and is intended to assist the process of effectively managing both natural and human-induced hazards and related risks in the Republic of Palau.

The document is set out in such a way that it allows government and non-government agencies and organizations to refer to relevant parts in order to assist in the development of integrated approach to all emergency responses, preparedness, hazard mitigation, relief and recovery plans and programs.

The Framework is presented in four (4) Parts plus Appendices as follows:

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1</td>
<td>consist of general information</td>
</tr>
<tr>
<td>Part 2</td>
<td>describes the purpose, objectives and the disaster risk management model and principles as adopted by the Pacific Disaster Risk Reduction and Disaster Management Framework for Action 2005–2015</td>
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<tr>
<td>Part 3</td>
<td>describes the disaster management mechanisms</td>
</tr>
<tr>
<td>Part 4</td>
<td>describes the disaster risk reduction approach and structure</td>
</tr>
<tr>
<td>Appendices</td>
<td>contain three supporting documents</td>
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1.3 National Hazards Profile

The Republic of Palau is vulnerable to a number of both human-induced and natural disasters, which potentially have a large impact on the economy and population. Over the past forty years, Palau has experienced disasters such as typhoons or tropical storms, droughts, and the collapse of the Koror-Babeldaob Bridge. While disasters in the past have been mostly ‘natural’ events, human-induced or technological disasters are expected to increase in the future, if national development is not regulated or mitigated properly.

Palau, like many other Pacific Islands, is particularly vulnerable to the effects of disasters, including the impacts of climate change. Therefore, every effort should be made to recognize this danger and to protect lives and resources from the effects of extreme and disastrous events.

The following natural and human-induced hazards and risks have been identified through stakeholder consultation as being those most likely to affect the Republic of Palau. They have been rated in terms of their risk potential as high, medium or low.
This Framework focuses on all types of hazards, human-induced and natural. Historically, disasters have seriously impacted Palau’s major assets and infrastructures, setting back the national sustainable development and diverting the national budget for recovery purposes. It is also pertinent to note that the impact of natural hazards may compound the effects of human-induced hazards; for example, a typhoon may impact on the solid waste disposal systems causing proliferation of waste.

### 1.4 Vision

A vision has been established for this Framework through stakeholder consultation. It is intended to serve as the key focus of undertaking the process of change in relation to disaster risk management.

The vision is “Safe, Resilient and Prepared Communities in Palau.”
1.5 Implementation of the Framework

The effective implementation of the provisions of the Framework is a primary concern. Critical to this is the strengthening of the National Emergency Management Office and other departments and agencies at all levels. The NEMO will develop a PNDRMF Implementation Plan for implementation immediately following the approval of the Framework.

1.6 Plan Development and Maintenance

It is the responsibility of the NEMO to ensure plans and procedures required under this Framework are developed and updated as necessary. The NEC must approve any changes to this Framework.

1.7 Authorities and References

There are certain documents that serve as authorities and references for this Framework. The documents include the following:

- Constitution, Republic of Palau Article VIII, Section 14.
- Pacific Plan.
2.1 Plan Purpose and Legislative Requirement

This Framework outlines an institutional structure to ensure effective coordination and collaboration in preparing for and responding to, sustainable mitigation against and recovery from the impact of hazards that are of high risk to Palau. The Framework also provides for effective coordination and guidance for decision makers in the development of emergency response plans and procedures and disaster risk reduction strategies by government and non-government agencies that have mandated responsibilities for such activities.

This Framework is given full effect by Executive Order No.287 of 2010.

Regional and international partner or donor organizations, in consideration of providing support to Palau in any aspect of disaster risk management, are urged to follow the structures and systems established under this Framework.

2.2 Objectives

The objectives of the new Framework are to:

- Establish a mechanism for effective control, coordination, decision-making, accountability and organizational arrangements for all aspects of disaster management and disaster risk reduction.
- Describe organizational arrangements that maximize the use of available resources to strengthen mitigation, preparedness, response and relief and recovery planning based on an 'all-hazards' basis and through an integrated approach.
- Promote integrated planning and collaboration for disaster management and disaster risk reduction across and within all levels of government, departments, sectors and communities.
- Support the successful implementation of existing and future relevant national, regional and international policy frameworks for disaster risk management and for sustainable development such as the 2020 Palau National Master Development Plan (PNMDP), et al., (refer to Section 1.7).

2.3 Disaster Risk Management in the Context of Development Planning and Decision Making

The national development priorities of the Republic of Palau are provided for specifically in the 2020 Palau National Master Development Plan (PNMDP) and numerous national, state and community development plans where economic, social, cultural and environmental goals and targets are specified.

This Framework has direct linkages to all of these development plans and ensures their sustainability during and after disasters. All development plans should include reports/statements on disaster risk assessments and plans on mitigation, preparedness, response and recovery (refer to Part 4).

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1 It is anticipated that the Framework will be legally enforceable once enabling legislation is developed and then passed by Congress.
A central mechanism to ensure the incorporation of DRM in development planning and
decision-making is the Hazard Mitigation Sub-committee (HMSC) of the National Emergency
Committee. Thus, the NEC provides the drive for integration of disaster risk management
considerations for socio-economic and environmental risks into development planning,
resource allocation and decision-making.

The broad risk profile for Palau (Part 1, Section 1.3) warrants an in-depth assessment as risks
can greatly reduce the ability of the Republic of Palau to achieve its sustainable development
goals. The challenge of achieving sustainable development goals, including the reduction of
poverty, increase in economic growth and protection of the environment, will be undermined
unless consideration of the potential hazard risks is integrated into the development planning
and resource allocation processes. Disaster risk management is a sustainable development
issue and thus is a critical consideration in the development planning and decision making
processes. The NEC is the mechanism to ensure the incorporation of DRM considerations in
development planning processes.

Palau’s 2020 Master Plan sets out national development goals, strategies and targets over
specific period. Each agency within the Government develops medium-term and annual
programs from these overarching national strategies and targets. The challenge is to ensure
greater sustainable development by integrating disaster risk management considerations into
the national planning and budgetary system. It is therefore essential that all development
planning approval or permitting policies should be amended to include assessment of disaster
risks. To refrain from this would potentially undermine all types of development.

2.4 Relationship with Other Plans

This Framework is intended to establish the platform from which sector policies, plans, and
programs can be developed. The Framework is also intended to complement the various
efforts already being undertaken across various sectors in relation to DRR and DM by providing
a new national institutional and governance framework. The Framework introduces roles,
responsibilities and powers that are required of various agencies in addition to any other roles,
responsibilities and powers they may have under other plans, mandates or legislation.

The Framework should also be supported by agency response plans, community plans,
hazard-specific contingency plans, and standard operating procedures. Any formal relationship
that the Government may wish to enter into with NGOs, private sector or community groups
for the purpose of DRM should be in line with and support the principles of this Framework.

2.5 The Disaster Risk Management Model

2.5.1 General

The disaster risk management model that supports this Framework provides for an all-hazards,
integrated, whole-of-government and whole-of-country approach that embraces all aspects
of the disaster risk reduction and disaster management and requires the commitment of all
levels of civil society to engage in the conscious management of risk as an ongoing process
to strengthen resilience and reduce vulnerability to hazards.
2.5.2 The DRM Model

The global concept of disaster risk management (DRM) consists of two components, as shown in Figure 1.

![Figure 1. The disaster risk management model.](image)

It is important to note that, while DRM has been defined as comprising DRR and DM, there is a fine line separating the two. The DRR component of DRM highlights a focus on the pre-disaster period whereas DM presents a heavier focus in terms of managing the situation immediately before and after a disaster. The elements of the two, however, are somewhat fluid and often activities or actions related to DM give rise to the identification of options for DRR.

**Disaster Risk Management** refers to ‘all forms of activities, including structural and non-structural measures, to avoid (prevention) or to limit (mitigation and preparedness)’ risks so as to ‘lessen the impacts of natural hazards and related environmental and technological disasters.’

**Disaster Risk Reduction (DRR)** refers to ‘minimizing or lessening vulnerabilities and disaster risks the adverse impacts of hazards within the broad context of sustainable development.’

Examples are:
- Prevention: relocation of people from high-risk areas.
- Mitigation: development and enforcement of building codes/standards.
- Adaptation: development and implementation of coastal zone protection plans to help address issues in relation to coastal degradation.

**Disaster Management (DM)** refers to ‘the organization and management of resources and responsibilities for dealing with all aspects of emergencies/disasters, in particular preparedness, response and recovery.’

Examples are:
- Preparedness: Pre-positioning of emergency supplies/stock; training; and exercising.
- Response: Saving lives, property and environment; effective conduct of damage assessments.
- Recovery/Rehabilitation: Repair damaged schools, power, and water.
- Reconstruction: Major capital works to restore transport and water reticulation systems.
Successful implementation of the DRM Model requires the following:

- Collaborative and coordinated decision making for all aspects of disaster risk reduction (prevention, mitigation and adaptation) and disaster management (preparedness, response, relief and recovery) across all levels and all sectors of government.
- Integration of national, state and community disaster risk management arrangements.
- Understanding of roles and responsibilities by all lead and support agencies.
- Commitment and involvement of members of designated committees and working groups.
- Defined and prioritized hazard mitigation plans.
- Application of appropriate hazard analysis and vulnerability assessment tools.
- Development and testing of emergency response plans for all hazards.
- Command, control and coordination protocols.
- Appropriate agency response plans and standard operating procedures.
- Effective early warning and communication systems.
- Public education, training and preparedness programs.
- Relief and recovery programs.
- Collaboration and coordination between national government, international and regional partners.

### 2.6 Disaster Risk Management in the Pacific Region


The Madang Framework represents the Pacific’s adaptation of the Hyogo Framework for Action 2005–2015: Building the Resilience of Nations and Communities to Disasters (HFA), and is based on Pacific development issues and priorities. The HFA is the current global policy commitment for improved disaster risk reduction agreed to by World leaders in January 2005 in Kobe, Japan. The coordination of efforts to implement the HFA is led by the Secretariat of the UN International Strategy for Disaster Reduction (UNISDR). SOPAC is responsible for coordinating the implementation of the Madang Framework and is supported in this effort by the Pacific DRM Partnership Network – an association of more than 30 regional and international organizations committed to DRM capacity building and development in the Pacific.

As a ‘signatory’ to the Pacific Plan and the Madang Framework, Palau is required to put into place national policies and programs that will complement these regional commitments and reduce the vulnerability of its communities to the range of hazards that it faces.

### 2.7 Key Guiding Principles for Disaster Risk Management

The key guiding principles to sustainable development, good governance and best practices of DRM recommended by Madang Framework and which have been adapted herein, are as follows:

- Disaster risk management is a sustainable development issue, which requires a coordinated and collaborated approach in addressing social, economic, and environmental goals and fundamentally involves supporting communities in understanding and managing their hazards and disasters.
Disaster risk management is everyone’s business and requires the entire government and the entire country to be committed to address issues across all sectors and levels.

Effective disaster risk management requires a strong governance framework with clear policies and legislation, accountability, institutional and organizational arrangements and connections across and within levels of government, sectors and communities.

Disaster risk management addresses all hazards and comprises disaster risk reduction, which includes prevention, mitigation and adaptation, and disaster management, which includes setting arrangements for self help in preparedness, response and recovery and for receiving relief support into the community level.

Integrating disaster risk management and capacity development into national planning and budgetary processes, state plans and community development plans is essential to enhance sustainable national development.

Developing real time hazard information and undertaking robust vulnerability assessments, supported by traditional knowledge, as a basis for underpinning key decisions by national, state governments, NGOs, communities and individuals, encouraging the relevance and value of traditional knowledge and its integration with scientific information in the design of risk reduction and risk management strategies and activities at all levels.

Adoption of regulatory and incentive-based disaster risk management instruments in DRR and DM.

Promoting and creating public, private and community partnerships for reducing risk and for disaster management.

Empowering communities to address their risks through the development of capacity and knowledge (traditional and scientific) and through the provision of support for local involvement in developing and implementing risk reduction and disaster management strategies.

Gender is a core factor in disaster risk.
Part 3

Disaster Management
3.1 General

The aim of disaster management is to strengthen the resilience of the whole nation to impact of hazards, disasters and emergencies through the development of effective preparedness, response, relief and recovery programs and activities.

This requires the development, review and testing of all emergency response plans. It also includes contingency plans for business continuity during and following national disasters. This will ensure an effective response to a given threat and that measures are in place for the protection of lives, property, environment, and major assets.

The NEMO is responsible for the coordination and implementation of preparedness, response and the immediate relief arrangements, working closely with all stakeholders to ensure that departments, sectors, agencies and communities are aware of potential hazards and prepared to effectively respond.

3.2 National Disaster and Emergency Management Structure

This Framework provides for a tiered level of response to emergencies and disaster management. The highest tier is that of the Disaster Executive Council (DEC), and the second is that of the National Emergency Committee (NEC). Within the NEC is the Central Control Group (CCG). The membership of the CCG is situational and the NEMO Coordinator, as the National Disaster Coordinator, will select initial responding members during the response phase of a disaster. The tier, which represents on-site management of emergency or disaster events, is the Incident Command Post (ICP). This arrangement or approach to the management of incidents follows the National Incident Management System. Figure 2 illustrates this national Disaster Management structure and the flow of communication during a disaster or national emergencies.

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Figure 2: Structure and chain of command during a state of emergency or disaster.

2 The DEC replaces the Crisis Leadership Team.
3.3 Response Roles and Responsibilities, and Membership

3.3.1 Disaster Executive Council (DEC)

The DEC is to be convened and chaired by the President. In his or her absence, the alternate chair is the Vice President. In the event the President and the Vice President are absent, a minister shall be appointed to chair the DEC. All Ministers are members of the DEC.

3.3.2 Role of DEC

The role of DEC includes the following:

- Declare national state of emergency.
- Declare end of national state of emergency.
- Commit national or state resources for disaster management during the period of state of emergency or disaster.
- Provide overall direction and strategic oversight.
- Request international assistance.

3.3.3 Membership of DEC

The members of DEC are as follows:

- President (Chair & Convener)
- Vice President (Alternate Chair)
- Minister of Justice
- Minister of State
- Minister of Public Infrastructure, Industry and Commerce
- Minister of Natural Resources, Environment and Tourism
- Minister of Finance
- Minister of Health
- Minister of Education
- Minister of Community and Cultural Affairs
- Heads of the Council of Chiefs
- Chairman, Governor's Association
- Senate President, Olbiil Era Kelulau
- House Speaker, Olbiil Era Kelulau

The NEMO provides secretariat support to the DEC.

3.4 National Emergency Committee

The National Emergency Committee (NEC) is to be convened by the Vice President or an alternate chair (a minister) in his/her absence. The NEMO is to provide secretariat support to the NEC.
3.4.1 Role of NEC

The role of NEC is as follows:

- Implement and monitor all aspects of the National Disaster Risk Management Framework.
- Provide policy oversight for disaster management and disaster risk reduction activities to improve agency coordination and support of DRM.
- Command, control and coordinate operations for any nationally declared disaster or emergency.
- Operate the National Emergency Operations Center (NEOC).
- Determine national action plans for disaster response.
- Issue early warnings through all available communication channels.
- Prioritize and allocate resource support to the Incident Command Post.
- Seek support and advice from the DEC, as required.
- Request and coordinate use of external assistance.
- Provide situation report and status to DEC regularly during a state of emergency.
- Recommend declaration and end of state of emergency to DEC.
- Initiate and compile the initial damage assessment report and submit to DEC with recommendations.
- Oversee recovery efforts according to priorities set by the DEC.

3.4.2 Membership of NEC

The NEC will be comprised of representatives from among the following ministries, bureaus, divisions and agencies:

- Office of the Vice President (Vice President/Chair)
- A Minister, Alternate Chair
- Office of the President
- NEMO (Coordinator)
- Attorney General’s Office (Attorney General or Designee)
- Bureau of Youth & Parks & Recreation (Director or Designee)
- Bureau of Public Health (Director or Designee)
- Bureau of Public Works (Director or Designee)
- Bureau of Public Safety (Director or Designee)
- Palau Community College (President or designee)
- Bureau of Education Administration (Director or Designee)
- Palau Public Utility Corporation (General Manager or Designee)
- Palau National Communications Corporation (General Manager or Designee)
- Foreign Affairs (Directors or Designees)
- Bureau of Domestic Affairs (Director or Designee)
- Bureau of Agriculture (Director or Designee)
- Governors’ Association (Designee)
- Palau Red Cross Society (Executive Director or Designee)
- National Weather Service (Meteorologist-in-Charge or Designee)
- Office of Environmental Response and Coordination (National Environmental Planner or Designee)
- Environmental Quality Protection Board (Executive Officer or Designee)
- Bureau of Aviation (Director or Designee)
- Division of Property & Supply (Chief or Designee)
- Palau Chamber of Commerce
The NEC will operate from the National Emergency Operations Center (NEOC) in accordance with established standard operating procedures (SOP) for each type of disaster or emergency (Refer to 3.11). The primary NEOC is located at the NEMO office. A secondary NEOC will be designated at a later date.

Depending on the type of disaster, various agencies represented on the NEC will take on a Lead Response or Support Response role. Guidance for the Lead Response Agency and Support Response Agency assignments is in Table 1.

3.5 National Emergency Operations Center (NEOC)

A safe and secure NEOC is a mandatory requirement for effective disaster management in Palau. The NEOC is to be furnished with reliable communication connection, back-up power, water and other necessary equipment for effective disaster management. A regular inventory of the NEOC should be carried out.

3.5.1 Functions of the NEOC

The functions of the NEOC are to:

- Provide for the overall command, control and coordination of response to a national disaster.
- Gather, collate and disseminate information.
- Serve as point of contact for the media through the Public Information Officer\(^3\).
- Prepare and disseminate situation reports.
- Facilitate a damage and needs assessment process.
- Maintain effective communication and information systems.
- Coordinate all government, non-government, private, regional and donor assistance.
- Manage the logistic arrangements of the immediate and medium term relief supplies.

The NEMO is responsible for the setting up and ongoing maintenance of the NEOC to ensure that it can be effectively utilized when required. Therefore a budget item for NEOC maintenance and exercises should be included in the NEMO annual budget. The NEMO is to coordinate the development of appropriate NEOC Standard Operating Procedures (SOPs) and to ensure that they are reviewed and exercised annually.

3.6 National Disaster Coordinator (NDC)

The Coordinator of NEMO, as the designated National Disaster Coordinator, will assume the overall control and coordination responsibilities for the duration of any declared national disaster in support of the role and responsibilities of the NEC. These responsibilities will include but not limited to the following:

- The direction and control of all government agencies and their resources.
- The acquisition of any Government asset, as well as acquisition of private and other assets and services, that may be needed to control the disaster situation.

\(^3\) The Public Information Officer will be provided by the Office of the President to assist the NEC and NEOC.
3.7 Central Control Group (CCG)

Whenever necessary, the National Disaster Coordinator may co-opt additional support through a team or Central Control Group for the implementation and management of disaster response operations. This includes both pre-impact preparedness measures and post impact relief. The CCG will:

- Activate departments and organizations plans or procedures in response to the given threat.
- Liaise with and guide department, agency, state government, NGOs and community groups in the execution of their disaster response roles and responsibilities.
- Activate disaster assessment system.
- Deploy technical teams.
- Collate damage assessment reports and prioritize resource allocation to affected areas based on resource availability, access and transportation requirements.
- Coordinate the preparation and dissemination of media releases.
- Identify and coordinate international relief assistance.

The National Disaster Coordinator will appoint members of the CCG dependent on the nature of the disaster event.

3.8 Incident Command Post(s)

An Incident Commander will manage a disaster or emergency on-site. The first responding agency representative to arrive at the scene, regardless of whether that individual is the most qualified shall create an Incident Command Post (ICP). This official serves as the Incident Commander and has operational control of the site until replaced by an official from the relevant Lead Response Agency suited to a given event. The Incident Commander shall immediately establish communication with the Coordinator of NEMO/NEOC. The ICP shall be formed as near as practical to the site of the disaster (refer Figure 4).

3.9 Lead Response Agency (LRA) and Support Response Agencies (SRA)

The specific emergency response functions for ministries, bureaus, divisions and NGO’s are found in Table 1. The NEMO is to ensure that this allocation of roles is made on the basis of the agency/organization’s mandate and capability to effectively execute the associate duties in either a Lead or Support role.

A Lead Response Agency is an agency that is mandated and has the primary responsibility for either carrying out or coordinating the response of a particular mandated function.

A Support Response Agency is an agency that supports the Lead Response Agency in its role and responsibility; the Support Response Agency may be the one that carries out the task for the Lead Response Agency; however, the Lead Response Agency is still accountable that the roles and responsibilities are executed.
### Table 1. Lead and Support Response Agency Roles and Responsibilities.

<table>
<thead>
<tr>
<th>Emergency Functions</th>
<th>Lead Response Agency</th>
<th>Support Response Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direction</td>
<td>Disaster Executive Council</td>
<td>Leadership Executives</td>
</tr>
<tr>
<td>Management &amp; coordination</td>
<td>National Emergency Committee</td>
<td>NEMO</td>
</tr>
<tr>
<td>Command and control</td>
<td>National Disaster Coordinator (at national level) or Incident Commander (at incident level)</td>
<td>All other agencies</td>
</tr>
<tr>
<td>Public information</td>
<td>President’s Press Secretary</td>
<td>Other PIO's, BoPS, BoDA, PNCC</td>
</tr>
<tr>
<td>Warning and alerting*</td>
<td>NEMO or BoPS or NWS, depending on the hazard</td>
<td>BoPS, BoDA, PNCC</td>
</tr>
<tr>
<td>Law enforcement/fire</td>
<td>Bureau of Public Safety</td>
<td>State Government Rangers</td>
</tr>
<tr>
<td>Search and rescue</td>
<td>Bureau of Public Safety, Marine Law Enforcement Division</td>
<td>State Government Rangers, Tour Agencies, Council of Chiefs, BTA</td>
</tr>
<tr>
<td>Medical, health and sanitation</td>
<td>Ministry of Health</td>
<td>Private Clinics, Fire, Red Cross</td>
</tr>
<tr>
<td>Power</td>
<td>Palau Public Utilities Corporation</td>
<td>Private Sector (MoU)</td>
</tr>
<tr>
<td>Water</td>
<td>Bureau of Public Works</td>
<td>State Government/Private sector</td>
</tr>
<tr>
<td>Sewer</td>
<td>Bureau of Public Works</td>
<td>State Government/Private sector</td>
</tr>
<tr>
<td>Communications</td>
<td>Palau National Communications Corporation</td>
<td>Bureau of Public Safety, Red Cross, Private sector</td>
</tr>
<tr>
<td>Engineering and public works</td>
<td>Bureau of Public Works, Capital Improvement Project</td>
<td>Private Sector</td>
</tr>
<tr>
<td>Environmental protection (HazMat, oil spills, chemical releases)</td>
<td>Environmental Quality Protection Board, BoPS</td>
<td>BoPS, OERC, private sector, Ministry of Natural Resources, Environment &amp; Tourism</td>
</tr>
<tr>
<td>Mass care (food)</td>
<td>Ministry of Education</td>
<td>Red Cross, NGO's</td>
</tr>
<tr>
<td>Shelter management</td>
<td>Ministry of Education</td>
<td>Red Cross, BoPS, MoH</td>
</tr>
<tr>
<td>Relief management</td>
<td>Division of Property &amp; Supply, MoF</td>
<td>MoE, State Government, Donors, Red Cross</td>
</tr>
<tr>
<td>Initial damage assessment</td>
<td>Depending on emergency (where and who), HazMat</td>
<td>All agencies</td>
</tr>
<tr>
<td>Comprehensive damage assessment</td>
<td>All agencies</td>
<td>All agencies</td>
</tr>
<tr>
<td>Transportation (land &amp; sea)</td>
<td>Bureau of Commercial Development</td>
<td>All other agencies, Require MoUs with NGO/Private Sector</td>
</tr>
<tr>
<td>Air transport</td>
<td>Bureau of Aviation</td>
<td>MoU with Local and Regional Agencies</td>
</tr>
<tr>
<td>Terrorism</td>
<td>Bureau of Public Safety</td>
<td>All other agencies</td>
</tr>
<tr>
<td>Climate change adaptation</td>
<td>Office of Environmental Response &amp; Coordination</td>
<td>National Weather Service, PCC, BoA1, Donor Agencies, EQPB</td>
</tr>
</tbody>
</table>

* As an agency with 24/7 capabilities, the Bureau of Public Safety (BoPS) is given the responsibility for Warning and Alerting for the sudden-onset hazards like tsunamis. In this regard, the BoPS will need to develop capacity for the interpretation of technical information as normally issued by international support agencies such as the NWS and Pacific Tsunami Warning Center in Hawaii. The BoPS will also need to develop capacity to evaluate information before issuance of public warnings so as not to create panic in a given situation. In relation to slow onset hazards, such as typhoons, the NEMO will take a lead role for Warning and Alerting.

### 3.10 Disaster Preparedness

Effective disaster preparedness activities are designed to ensure that vulnerable communities have the knowledge and understanding of the hazards and risks, to which they may be exposed to, in order to take appropriate actions to save lives, protect properties and the environment. The resources and systems needed to cope with the effects of a disaster should also be maintained in a state of readiness in order for them to be efficiently mobilized and deployed when needed.
The NEMO is responsible for the effective coordination of disaster preparedness activities, working in partnership with NEC working groups, all government departments, sectors, NGOs, churches, the private sector, community groups and regional partners.

### 3.10.1 Level of Preparedness

The NEMO is responsible for the regular assessments and reporting to the NEC on the levels of preparedness within departments, sectors, agencies and communities to ensure that appropriate programs are developed and implemented.

### 3.10.2 Emergency Communications

The NEMO is responsible for coordinating the regular assessment and reporting on available emergency communications and back-up communication resources for use in national disasters, including testing and preventive maintenance of these resources on a regular basis.

### 3.10.3 National Disaster Management Training Plan

The NEMO is responsible for ensuring that a National Disaster Management Training Plan is developed in collaboration with national, regional or international training providers and that training materials and programs are developed to support all departments, sectors and agencies to improve their capabilities relative to their designated functions. It is recommended that a training officer should be employed to strengthen the capacity of the NEMO.

The NEMO, in collaboration with identified partners or training providers, is responsible for carrying out the following tasks:

- Identify training needs and available resources.
- Develop a national training plan and training materials.
- Develop and maintain a national training database.
- Identify and integrate all related disaster management and disaster risk reduction programs into the national training agenda.
- Develop partnerships with national and regional training providers.
- Ensure a consistent approach to training methodology and programs.

### 3.10.4 Education and Awareness

It is the responsibility of the NEMO to develop DRM education and awareness programs for use in the formal education system, with the assistance of the MoE and the PCC. The development of such materials and programs should be conducted in close collaboration with the support of its training partners.

It shall also be the responsibility of the NEMO, in partnership with other agencies and organizations such as National Weather Service and Palau Red Cross Society, to develop and disseminate informal DRM community awareness programs. This will ensure that individuals, communities and other targeted groups are better informed of their exposure to hazards and risks and that they are able to take appropriate evasive actions by applying traditional coping mechanisms, heed early warning procedures and other emergency preparedness and response planning. State Governments should ensure that it has DRM coordinators to carry out the necessary implementation of such measures working in close collaboration with the NEMO for technical advice and support.
3.10.5 Department and Agency Response Plans

All responsible ministries/departments and agencies are to prepare emergency response plans that provide coordinated support for national disaster management. These plans are to ensure that preparedness measures (to protect assets and business continuity) and response (mobilizing resources and information sharing) are achieved in a timely, safe and coordinated manner, including details of the actions to be taken before and during the hazard impact. The plans should also indicate details of specific warning systems and current equipment and resource lists and status that can support its response function.

The NEMO is to ensure that these plans are developed and consistent with this Framework and that it has copies of these plans, on hand, for ease of coordination during disaster emergency. An outline template to assist in the preparation of response plans is attached in Appendix 1.

3.10.6 Warning and Alert Systems

General

In order to minimize the impact of disasters on vulnerable individuals and communities and ensure an effective emergency response, it is critical to have reliable and effective warning and alerting system in place. Knowing when to act and what to do will save lives and property.

Organizational Roles

NEMO

- It is the responsibility of the NEMO to collaborate with the relevant agencies (see Table 1) to activate and disseminate national warnings. It is also the responsibility of the NEMO to ensure that timely and appropriate messages are broadcasted to the public, advising of the degree of the threat and action that should be taken before, during and after the impact.

All other Agencies

- It is the responsibility of all departments, agencies and organizations to ensure that representatives are contactable at all times, in particular, during disasters and after normal working hours. Departments, agencies, outer islands/atolls state governments, communities, NGOs and other organizations should assist in this process by ensuring that relevant information is forwarded to the NEMO as soon as possible.

National warning systems must be people-focused and integrated to ensure effective dissemination and communication networks from national to outer island/atoll and community levels. The warning systems must be detailed in all disaster response plans. Where possible, for all hazards, early warning systems using common systems and terminology and able to reach all vulnerable communities should be developed. National warning systems should also link to international and regional early warning systems and provide for 24 hours/7 days a week capability.

3.10.7 Evacuation Shelters

The NEMO, in collaboration with the Ministry of Education and state governments, is responsible for coordinating the identification of evacuation shelters and informing the affected communities of their location. It is the responsibility of the police to assist the evacuation process, supported by appropriate government departments, agencies, NGOs and churches. The police shall have the powers of arrest and detention of those members of the public who deliberately fail to adhere to their instructions to evacuate homes and other buildings and to move to designated evacuation shelters.

The NEMO is responsible for the development of MoU’s with all non-government facilities for the use of the facilities as evacuation shelters.
3.10.8 Exercises and Drills

The NEMO is responsible for providing technical support to assist in the development and conduct of exercises and drills to test disaster response plans.

The exercises and drills need not be complex but should serve to test systems and resources and remind all staff of the way in which they should operate during disaster situations. The NEMO will also coordinate the development of national exercises and provide support to state government exercises as required. These exercises should be on a periodic basis and should focus on the disaster management structure where the NEC is regularly involved. The exercises ensure that the capability to respond to and recover from a range of hazards is practiced. The exercises should also include the NEOC.

These exercises may include:
- Discussion exercises.
- Tabletop exercises.
- Field or operational exercises.
- Communication exercises.

3.10.9 Evaluation of Disaster Preparedness Programs

The NEMO and its partners from Lead Response Agencies and training providers are to ensure that all disaster preparedness programs are evaluated continuously to ensure relevance of training, education and awareness materials and programs.

3.11 Disaster Response

The Coordinator of the NEMO shall be the National Disaster Coordinator (NDC) for all natural disasters. The NDC will be assisted in the performance of his/her duties through the provision of technical advice and support from members of the NEC, Central Control Group and Lead Response Agencies.

In the absence of the Coordinator, the Chair of the NEC will designate a National Disaster Coordinator.

In the case of a disaster that is limited to a single state, the National Coordinator will consult the governor of that state and, if necessary designate him/her as a State Coordinator. In such instances, the State Coordinator will liaise with the NEOC and the National Coordinator for national level support.

In cases of disasters caused by hazards such as fire, oil spill, and disease outbreak, the Lead Response Agency mandated for those disasters are to coordinate response activities until it is determined that the scale of the disaster has resulted in a situation where the impact is beyond their resource capacity to manage. In such an event, the National Disaster Coordinator will assume overall coordination and activate the NEOC, with the consent of the NEC Chair, and other national mechanisms such as the CCG, accordingly. The Chair of the NEC shall inform the DEC Chair of the decisions and actions taken in this regard.

3.11.1 Levels of Response

This section of the Framework describes the various levels of response to events involving threats to life, property and the environment. The aim is to ensure a coordinated and integrated approach to disaster response management across all responding agencies. The following is to provide guidance on the levels and the scale of emergency events.
The three different levels are of scale and response.

- Incident is a routine event that is responded to by a single or small number of agencies. It is low in resource needs and in coordination requirements at the incident scene. The National Disaster Coordinator is informed of the situation.
- Emergency is far larger and more complex than an incident and requires a multi-agency response. The management of a major emergency requires a more coordinated and integrated approach but can be managed with the resources that are available at a local level. The National Disaster Coordinator is informed of the situation, indicating that should the event worsen, a disaster event may ensue and the NEC should be on stand by.
- Disaster is a widespread large-scale event that is beyond the capacity of the available national resources to manage and would therefore invoke a declaration of a State of Disaster.

It is important to note that, in “no-notice” events, the impact may be of such severity and magnitude that immediately the result is a disaster. In this case, the President may prepare a Disaster Declaration, as basis for requesting international assistance.

### 3.12 Declaration of a State of Emergency or Disaster

The NEC can recommend to the President, through the DEC, to declare a State of Disaster/Emergency on all, or part thereof, of the affected or potentially affected areas of the Republic of Palau. This will be done based on reliable information received from a verifiable source such as the weather service or based on the result of aerial reconnaissance and/or significant and verifiable disaster impact reports/ assessments. This is in line with Article VIII Section 14 of the Palau Constitution.

The President may, by order, in writing, end or revoke a declaration of a State of Disaster or Emergency at any time based on the advice and recommendation of the NEC.

### 3.13 Damage Assessments

Disaster or emergency events will require follow-up actions. These are to be guided initially by damage assessment reports. There are two types of assessments conducted. The first is the Initial Damage Assessment (IDA) and the second is Comprehensive Damage Assessment (CDA).

#### 3.13.1 Initial Damage Assessment (IDA)

The IDA is to provide the NEC with an initial understanding of relief requirements and the damage to infrastructure, property, communications, etc.

The Minister of PIIC, working in close collaboration with NEMO, is responsible for the development and implementation of a system under which IDA, using standard reports, is conducted by trained national and state representatives as soon as practicable after a disaster. The IDA reports must be passed on to the NEOC within 24 hours of preparation to assist decision-making by the NEC.
The Initial Damage Assessment should provide the following information:

- Number of fatalities.
- Number of injuries including urgent and non-urgent.
- Number of missing persons.
- Number made homeless.
- Number of houses destroyed and damaged in categories.
- Damage to other buildings and infrastructure.
- General situation and any major problems/damage.
- Action taken.
- Damaged roads or bridges.
- Transport routes open or closed.
- Resources required.
- Name and contact of person in charge.

The IDA (and the follow-up CDA) is to be supported by the preparation of accurate baseline data and information which profiles the demographics of Palau; this is to be collated by the NEMO working in association with relevant members of the NEC as part of ongoing efforts for preparedness.

### 3.13.2 Comprehensive Damage Assessment (CDA)

The CDA provides the NEC and Cabinet with the total costs of damage across all sectors of the economy. This survey and assessment type provides information to prompt adequate recovery/rehabilitation programs and eventually the reconstruction that may follow. A CDA is sometimes referred to as a Sectoral Damage Assessment.

The conduct of CDAs by agencies must take into account the socio-economic impact of disasters on the livelihoods and the general well being of communities to help in informing micro finance and other support facilities that would address the most vulnerable groups following disaster events. CDA’s should cover public infrastructures and individual properties damaged.

The state/local government and community representatives are to assist the Damage Assessment Teams as needed or required. These assessment teams will conduct either aerial and/or ground assessments based on the level and the scale of the damage and the time they have available to perform the tasks. Local representatives can assist with accurate information and basic assessment of initial relief and recovery needs.

### 3.13.3 Standard Operating Procedures

Standard Operating Procedures may be developed by the NEMO with relevant agencies for a particular disaster management function to improve coordination. Documentation of the processes required to undertake a function approved by the NEC must be made available.

For example, standard operating procedures may be required for the operations of the NEOC facility and disaster management communications system.
### 3.14 Activation of Response Arrangements

The response arrangements are activated in a number of stages through a gradual and controlled mechanism which, when utilized correctly, will ensure that the level of preparedness for a response will, at least, equal the level of threat being posed.

Care should be taken not to confuse the terminology being used in this section. The response activation system does not refer specifically to meteorological messages – it relates to the system in place that is used to warn the disaster officials and the community that a potential hazard exists. In the case of typhoons, it would be the weather service warnings and, in the case of a health-related epidemic, it would be the Ministry of Health warnings, etc.

The alerting system refers to the mechanism for informing and activating the departments and organizations and for alerting the community on the degree of a threat and the action to take. It is used specifically by the disaster officials and should compliment other warning systems already in place.

The conditions of readiness within the activation process are outlined below:

**Stage One – Readiness**

Readiness comes into effect when some form of information is received which indicates that the provisions of these arrangements and/or associated plans may be activated. The NEC will declare this stage in force and the NEMO will alert appropriate organizations of such action. At this stage, NEC will reconvene to assess the emergency at hand and to prepare a recommendation to the DEC.

**Stage Two – Standby**

This comes into effect when it is established that a threat exists to all or part of the island chain. It requires that members of the NEC and all relevant organizations and personnel be placed on standby and to begin operations or actions under these arrangements immediately when they are called upon. The NEMO, in consultation with the NEC, will determine when this stage becomes operative. In some circumstances, there may be no warning or insufficient warning of an impending threat, and therefore it may not be possible to progress through stages one and two in a normal fashion. The fact that there are sudden onset disasters (earthquakes and tsunamis) and slow onset disasters (typhoons, droughts) will determine different alert condition levels.

**Stage Three – Activation**

This stage comes into effect when the threat is imminent or in an impacted situation where a disaster has already occurred. The NEMO will activate this stage and call upon participating organizations to take action in accordance with planned procedures and/or as directed by the NEC.

**Stage Four – Stand Down**

The NEC will give the order for organizations to stand down once a full assessment has been made, the threat has abated, and/or disaster relief operations are well advanced. This will be a gradual process with organizations, which have limited involvement in the operations being stood down in the first instance.

This maximum protection-minimum disruption process will avoid over response and serves as an effective means of supporting community action to achieve self-help through ongoing communication with their respective state/local government DM coordinator and the NEMO. The stages will also serve as a guide for departments, sectors and organizations in the development of respective emergency response plans and standard operating procedures.
3.15 Agency Response Plans/Procedures

Specific emergency response procedures for given hazards or threats must be documented within the respective departments, sector and agency response plans. It is essential that such plans/procedures are consistent with the intent of the stages of activation as listed within this Framework.

3.16 Media Broadcasts

The national radio station serves as an important communication link with the community at large. Outer islands and remote areas are warned or alerted through designated HF radios. This link is critical for the relay of information, and accordingly some control measures must be introduced to ensure that only essential broadcasts are made during periods of highest threats.

The National Disaster Coordinator is to ensure that all messages are screened and only urgent or essential service messages are broadcasted throughout the stages of the activation process.

All broadcast requests related to the operational situation should be channelled through the NEC for authorization, and the preparation of messages shall be the responsibility of the Public Information Officer (provided by the Office of the President). This will ensure that only accurate and relevant information is being broadcasted and that the public is not being confused by an avalanche of messages. It also ensures that messages relating to those islands/atolls under most threat receive highest priority.

Typhoon warning messages issued by the National Weather Service are excluded from these procedures and will continue to be broadcasted as and when received.

All media releases during emergency operations are regarded as highly important to all sections of society consistent with the public safety policy of the Government; therefore, they will be regarded as community service on a free of charge basis to NEMO or the Government.

It is the responsibility of the media staff to liaise with the NEC Public Information Officer for updated situation reports.

3.17 Post Disaster Response Review

The NEMO is responsible for ensuring that a thorough and accurate review of the operation and procedures used throughout is conducted to ensure that the experiences gained and lessons learned can be applied towards improving future preparedness, response and recovery procedures.

3.18 Debriefing

The NEMO will ensure that operational debriefings are conducted as soon as possible after an event. These should be conducted in two stages:

- Intra-NEOC (within the NEC) and Intra-Agency (within each agency) to review operating procedures and to allow staff to submit views on the operation.
• Inter-Agency with all departments and organizations that actively participated in the operation coming together to discuss areas where plans and procedures might be improved for future events.

Operational debriefings provide information which assists in identifying shortcomings in disaster management planning and help to validate plans. In particular, they can highlight the need for policy changes, for a review of procedures and resource documentation, and for improvements in community preparedness. The outcomes of operational debriefings can lead to:

• A re-assessment of risks including the effectiveness of risk assessment techniques and risk treatments.
• Improved levels of preparedness for the next disaster and strengthened response and recovery processes.
• Improved prevention/mitigation arrangements.
• More efficient or timely use of available resources (human resources, equipment, materials, etc.)

### 3.19 Review of Response Arrangements and Procedures

Planning is a continuous process. Therefore, the NEMO, in consultation with the NEC, is to review the findings of the debriefings and consider amendments or actions to improve these arrangements. Such actions may include:

• Amendments to the arrangements, emergency response plans or procedures.
• Restructuring of the disaster risk management organizational arrangements.
• Identifying and conducting training activities.
• Arranging and promoting public awareness and education within the communities.
• Amending agency roles and responsibilities.

### 3.20 Disaster Relief

Based on recommendations from NDC, CCG and ICP following receipt of damage and need assessment reports, the NEC will make decisions regarding which communities receive disaster relief assistance. Relief efforts will, at all times, be applied on a fair and equitable basis and will adhere to the government’s ‘self help’ concept wherever possible.

Government agencies, businesses, charitable organizations, NGOs, community organizations and individual responsible leaders are to ensure that their relief assistance addresses the needs as specified by the needs assessment report.

Under no circumstances should relief assistance involve political, religious, or business bias; however, political support is required to ensure the relief efforts are successful.

All relief supplies are to be coordinated through the NEC. The Palau Red Cross, other NGOs, and community level organizations that may be in a position to augment government efforts must ensure that this coordination is maintained.
3.21 International Assistance

Requests for international assistance will only be made when it has become clear that the situation at hand is beyond the national capabilities or when there are no national resources available from the Government, NGO or private agencies in Palau and with the approval of the DEC. The requests shall be made, on behalf of the Government of Palau, by the appropriate bureau under the Ministry of State, which typically will convene a meeting of diplomatic missions based in Palau as the first step in the appeal process. However, the President may make an appeal to any foreign government directly.

The Chair of the NEC recommends to the DEC the need for international assistance based on assessment reports received. Activation of requests for assistance shall be liaised with the Ministry of State.

When international assistance requirements are made known, based on the information provided by damage and need assessment reports relayed to them by the Chair of NEC, the Ministry of State will continue direct consultations and contact with donors.

All government agencies, NGOs, private and community organizations should assist in compilation of damage and need assessment reports. Priority needs will be based on the immediate danger to community survival and welfare.

Under no circumstances will the Government or non-government agencies make direct requests to aid agencies/distribution or diplomatic missions on behalf of the Government of Palau without the consent of the DEC.

The NEC and the Central Control Group will also be accountable to the aid agencies/donors for ensuring that all relief assistance is distributed in accordance with guidelines governing the provision of such assistance and for the preparation of a report on expenditures and distribution of assistance provided by each agency/donor/diplomatic mission.

Based on the identified disaster relief requirements, the President, as head of state, may make an appeal to any foreign government directly.

3.21.1 Customs and Quarantine

Once an official request for international assistance has been submitted, the customs and quarantine offices are to make the necessary arrangements for ongoing clearance of all donor assistance provided for disaster relief purposes. The Customs and Quarantine offices are to consider approval of duty exemption for goods, which are purchased locally for the purpose of emergency and relief requirement. The approval of duty exemption will only be considered following a letter of request from the NEC.

The National Disaster Coordinator is responsible for providing information on donor assistance to customs and quarantine offices to facilitate the exemption process. The information includes details on type, quantity, source, and means of transportation, arrival point and estimated time of arrival.

3.22 Financial Considerations

The Director of Bureau of National Treasury is responsible to the NEC for the management of all funds provided for disaster relief purposes, and prior authorization is needed for expenditure of such funds.
3.23 Continuity of Relief Efforts

The NEMO is responsible to the NEC for monitoring the requirements for disaster relief during the recovery period. In many cases, this process is overlooked once the initial relief operations have been completed, and therefore the continuity of relief efforts must be re-assured.

3.24 Disaster Recovery

The recovery process may, depending on the severity of damage, take many months or years to complete. This aspect of disaster management is to be managed and coordinated by the NEC with the support and advice of the HMSC. The priorities identified by these committees for recovery (based on damage assessment reports and advice from various sources) will be channelled to the Bureau of Budget & Planning for consideration and endorsement.

The Bureau of Budget & Planning will review budget proposals in respect to recovery priorities endorsed by the NEC and lead the process of discussions for donor support or support through the national budget.

The NEC is responsible for providing a full report on the impact of a disaster (including the socio-economic and other factors) and critical and urgent priority needs to the NEC within three months of a disaster.

Depending on the severity of the damage, communities may require various levels of support for restoration. As assistance is provided (or required), responsible representatives will need to monitor distribution of such assistance and progress in restoration for reporting on the status of community recovery to the NEC and the state governors.
4.1 General

The aim of disaster risk reduction is to prevent or mitigate the impact of hazards on communities and thereby reduce underlying risks to national development by changing social, economic, environmental conditions.

This requires that all national development programs and projects be subject to the formal risk management process of risk identification, risk analysis and risk evaluation and that appropriate risk treatments be applied to the evaluated risks to ensure that identified risks are either eliminated (prevented) or reduced (mitigated) as far as is practicable.

At the national level, this requires that disaster risk reduction programs and activities be incorporated into the various types of corporate and business plans and budgets. The link between national development processes and disaster risk management reflecting the guiding principles is illustrated in Figure 3. There must also be a cooperative, coordinated and collaborative approach to disaster risk reduction with key sectors working closely with relevant international, regional and national stakeholders. It also requires the strengthening of relevant legislative and regulatory processes.

State-level disaster risk reduction programs and activities should include identified priority hazards requiring attention, and measures to deal with them are to be incorporated into the respective local government plans and budgets.

At the community level, disaster risk reduction programs and activities are to be developed and incorporated into programs that address community development and coping mechanisms in times of disasters. Relevant traditional knowledge and practices are to be included in all national, state and community disaster risk reduction plans.

![Figure 3. Link between National Development Planning and Budgetary Process and Disaster Risk Management.](image-url)
4.2 Disaster Risk Reduction Approaches

There are two approaches to disaster risk reduction that are provided by the Framework:

1. Emphasises the need to mainstream disaster risk reduction tools or guidelines into the development planning and resource allocation decision-making processes during ‘peace time’ to ensure that existing and potential risks are taken into account for national development.

2. Emphasises activities conducted to ensure that impacts are minimized or managed in a way so that communities and their livelihoods are safeguarded and protected when disasters occur. Figure 4 provides a conceptual structure for integrating disaster risk reduction (DRR) at the national level.

![Figure 4. Disaster Risk Reduction Mainstreaming Structure.](image)

4.3 Ministry of Finance – Bureau of Budget & Planning (BoBP)

Disaster risk reduction is the role of individual agencies that are mandated and responsible for development planning and implementation. The Bureau of Budget & Planning (BoBP) under the Ministry of Finance in Figure 4 is seen as the national mechanism to confirm that DRR has been considered in national development programs either through development projects or through sectoral plans before making decisions on budget or resource allocation.

The BoBP receives programs/projects or sector plans with strategies and actions that seeks funding assistance for implementation from the NEC. Before BoBP consideration of programs and projects, the NEC will ensure that these programs/projects/plans have been subjected to a thorough disaster risk assessment process. Such an assessment will be conducted on behalf of the NEC by the Hazard Mitigation Subcommittee, which will combine its efforts with other agencies mandated to review and assess development programs and projects like the Environmental Quality Protection Board.

The NEC should also develop DRR standards and conditions for DRR integrating through a consultative and participatory process with all agencies that can contribute to DRR.
4.4 DRR Role of the NEC

Under this Framework, the NEC is responsible for ensuring that all Government agencies:

- Use appropriate risk analysis and assessment tools and guidelines in screening programs/projects/plans to ensure that DRR aspects have been carefully considered and that risks and strategies are incorporated into national and sectoral plans.
- Develop DRR standards and criteria specific to each sector development.
- Develop DRR mainstreaming policies to strengthen development planning and budgetary decision making processes.
- Recommend to donors and to national budgeting mechanisms programs and plans that have appropriate DRR strategies and actions.
- Actively undertake awareness and capacity building activities on mainstreaming DRR in all phases of development planning and budgeting, with such activities being adequately resourced and implemented.
- Develop, ensure and lobby appropriate legislation to facilitate the incorporation and enforcement of risk assessments in development planning, decision-making and development implementation and management.

4.5 Hazard Mitigation Sub-committee

The Hazard Mitigation Committee is a sub-committee of the NEC that is responsible (with the support of the National Emergency Management Office) for providing advice and support to the NEC on matters relating to DRR priorities that should be integrated in national development planning and budgetary processes. (NEC technical arm to assess situation prior to disaster and advise NEC/DEC before emergency arise).

The Hazard Mitigation Subcommittee (HMSC) is a smaller group taken from all agencies that are responsible for various aspects of DRR (Figure 4). Some of the agencies that are responsible for DRR are also members of the NEC. The HMSC should have a flexible and direct working relationship with all other DRR agencies (a list of these agencies and their functions are given in Appendix 3) to share DRR information and data and to promote the application of scientific and technical approaches and tools in support of risk reduction measures and in identifying national DRR priorities. The NEMO is to provide secretariat support for the HMSC.

When instituting recovery activities following a national disaster, it is critical to ensure that risk reduction considerations are taken into account when recovery and reconstruction priorities are identified.

4.5.1 Hazard Mitigation Sub-committee Membership

The HMSC will be chaired by the Coordinator of the NEMO.

The following are the members of the HMSC:

- Coordinator, NEMO – Chair
- Director, Bureau of Public Works – Co-Chair
- Director, Bureau of Commercial Development
- Manager, Capital Improvement Projects Office, MPIIC
- National Environmental Planner, Office of Environmental Response & Coordination
- Executive Officer, Environmental Quality Protection Board
- Director, Bureau of Public Health
- Director, Bureau of Education Administration
4.5.2 Special Annual Meeting of the HMSC

A special annual meeting of the HMSC to coincide with Palau’s budget planning cycle should be held to plan and identify mitigation activities (and resources for their implementation) for the upcoming financial year and to report on progress and issues with mitigation implementation in the past financial year. These mitigation activities should be factored into annual business and action plans of responsible agencies.

The HMSC should work in partnership with any national climate change adaptation committee, and consideration should be given to the merging of such committees. While mitigation activities for high-risk hazards such as typhoons, storm surges and other climatic and geological hazards are coordinated by the HMSC, those mitigation activities for all other hazards are to be coordinated by the relevant line ministry or agency that is mandated by legislation, regulation or an Executive Order.

4.5.3 Functions of the HMSC

The functions of the HMSC are as follows:

- Provide advice and support to the NEC on the application of scientific and technical approaches and tools in support of risk reduction measures.
- Provide technical and scientific advice and support for mitigation measures based on hazard, vulnerability and risk assessments.
- Assist agencies with relevant public awareness programs.

4.6 Application of Disaster Risk Reduction Tools and Technologies

Both HMSC and the NEMO should continually liaise with regional organizations, government and non-government organizations to identify tools and technologies that may be suitable to assist the disaster risk reduction process. Both should also promote and support wider recognition and use of these tools and technologies from other countries and regions that may be relevant to the Republic of Palau.

The NEMO should be a catalyst for the more widespread use of tools and technology within the development planning process, and its current linkages with a range of regional and international organizations should be exploited in this regard. Examples of tools and technologies that are currently available include Geographical Information Systems (GIS), satellite imagery, computer modelling software, long-term climate predictions, land-use planning, cost-benefit analysis and impacts and risks assessment, among others.

An example of the application of scientific tools to inform risk reduction is the use of bathymetry (sea floor contour mapping) and topography to create inundation models in relation to potential tsunami run-up.
Some common examples of hazards and disaster risk reduction measures are:

- The retrofitting of existing buildings and structures to typhoon resistant standards.
- The development, application and enforcement of building codes and fire codes.
- Conduct of hazard and risk awareness campaigns in communities and schools.
- The integration of disaster risk into existing school curricula.

4.7 Disaster Risk Reduction Coordination Roles

The NEC and HMSC should play a key role in ensuring coordinated and integrated DRR roles among all responsible agencies. The BoBP is responsible for ensuring that DRR is considered and incorporated (mainstreamed) in development planning, decision-making processes and budgetary allocations.

The HMSC coordinates the ‘preparedness’ of agencies and communities and promotes awareness of the type and extent of risks that communities are dealing with in relation to the range of hazards affecting Palau, with specific attention to high and medium risk natural hazards. The process of DRR occurs all year round (normal times and disaster times) in terms of planning, preparation, awareness, education and development implementation. All of these contribute to the country’s sustainable development and to building robust communities as well as to strengthening community resilience.

Appendix 2 provides a table which lists some of the existing disaster risk reduction policies and the responsible agencies. This table will be subject to further review and amendment.

Appendix 3 provides a checklist to be used by the NEC as a tool for assessing the level in which DRR is mainstreamed into development projects/programs.

New TOR for NEMO Coordinator

Position: Coordinator of the National Emergency Management Office

Office: National Emergency Management Office

Role Statement

The National Emergency Management Office (NEMO) is the primary agency for disaster management programs and activities. Specific responsibility for such matters rests with the Chairman of the National Emergency Committee (NEC) the Vice President.

Role of the Coordinator of the NEMO

- Responsible for coordinating the implementation of the 2009 National Disaster Risk Management Arrangements and maintaining compliance with associated Federal Statutes and Regulations.
- Coordinate the review of the National DRM Arrangements associated subordinate plans.
- Provide technical assistance to all ministries and departments in the maintenance of the disaster and contingency plans and standard operating procedures.
- Act as Secretariat to the National Emergency Committee, also a member of the NDC.
- Maintain operational readiness of the NEOC.
Training

- Identify and evaluate the requirement for disaster risk management training.
- Identify existing national and regional courses appropriate to the requirements of Palau and coordinate selection of participants.
- Maintain training records of staff who have attended disaster related training and education courses.
- Coordinate the planning and execution of national disaster management exercises.
- Monitor and coordinate the delivery of public awareness and education programs as developed by government departments and other agencies.
- Develop and deliver public awareness and education programs through the media, schools and other community groups on hazard mitigation activities.
- Coordinate an annual NEOC training exercise to maintain operational efficiency.

Liaison

- Function as the liaison point in disaster related activities with national agencies, NGOs and community groups in both emergency and non-emergency times.
- Assist local government officials with the development of their disaster plans and provide briefing on the implementation as necessary.
- Represent Palau at meetings, conferences, workshops and other disaster related trainings to ensure the NDMO keeps abreast with current disaster management practices and developments.

NEMO Management

- Responsible for NEMO & NEC disaster related records management, including version control.
- Maintain all master copies (both hard and soft) of relevant disaster management documentation including the National Disaster Plan, The Standard Mitigation Plan, all associated subordinate plans and Standard Operating Procedures.
- Submits annual budget allocation for the NEMO and subsequently maintain financial accounts in accordance with approved financial procedures.

Disaster Management Responsibilities

- Member of the NEC
- As National Coordinator during State of Emergency or Disaster and provide assistance in terms of coordination to the Core Group and other assessment teams during the immediate response and recovery process after a disaster.
- On behalf of the NEC issue public warnings through the radio station in the event of a rapid onset disaster/emergency when time does not permit the issuing of such warnings in accordance with current SOP’s.
- On behalf of the NEC coordinate post disaster/emergency response and recovery operations analysis and review.
- Assist the CCG and assessment teams in the compilation of survey reports to support requests for disaster assistance from international organizations and donors agencies.
Appendices
Appendix 1

Outline Template for the Preparation of Agency Response Plans

Preamble:
An introduction and to include the following:
- Purpose of the plan
- Objectives
- Institutional structure of the ministry/department

Section: 1
This Section may cover the following as headings or sub-headings:
- Mandated responsibilities of the agency (Ministry or department/office)
- Responsibilities (additional) given by the DRM arrangements
- Management Structure and responsibilities of each management staff

Section: 2
This section should cover the disaster management responsibilities of the agency:
- Structure or chain of notification/command during disaster warning
- Contact lists of all staff
- Inventory list of facilities/resources of the agencies
- Key actions and responsibilities during warning, response and recovery (including Preparation for resumption of duty if interrupted)

Section: 3
This section could cover procedures such as:
- Situation report template
- Safety procedures for high risk hazards (i.e. typhoons, surges)

Section: 4
This section could cover line of succession within each agency:
- List of employees and their chain of command
- List of all resources available at hand that can be utilized in times of emergency/disaster
# Appendix 2

## List of Existing Disaster Risk Reduction Activities and Responsible Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Disaster Risk Reduction tasks</th>
<th>Relevant legislative/policy mandate for mitigation</th>
</tr>
</thead>
</table>
| Bureau of Agriculture | Develop and implement forest management plans and quarantine regulations  
Develop rapid response plans for new introductions of pests and invasive species  
Introduce and distribute drought, salt and pest tolerant crops  
Educate farmers on proper and effective pesticide use, proper land-use to prevent soil erosion | Various agricultural development policies |
| Environmental Quality Protection Board (EQPB) | Environment Impact Assessments  
Earth moving permits  
Reduce GHG emission through efficient and effective solid waste management practices | |
| Bureau of Public Works | Protection of water resources through reduction of use and prevention of negative impacts.  
Water source protection, watershed management  
Safe drinking water  
Strengthened capacity for water resource management | Water Safety Plan (WSP)  
National Drought Mitigation Plan  
National IWRM policy |
| Bureau of Public Health, MoH | SARS and epidemic prevention plans  
Improvement of people’s well-being and livelihoods through the reduction of negative public health impacts | |
| National Weather Services | Forecasting | |
| Ministry of State Liaison with state governments on DRR activities | | |
| Ministry of Public Infrastructure, Industry, and Commerce  
Palau Automated Land and Resource (PALARIS) | Mitigate the causes and negative impacts of land degradation on the structure and functional integrity of ecosystems through sustainable land management | National Biodiversity Strategy and Action Plan (NBSAP)  
Economic Development Plan (EDP)  
National Environment Management Strategy (NEMS)  
Protected Areas Network (PAN) |
| OERC | Improved ecology and water quality, forest habitats, coastal waters  
Environmental enhancement | NEMS  
NBSAP |
| Ministry of State | Liaison with state governments on DRR activities | |
Appendix 3

Checklist for NEC to Assess the level of Mainstreaming Disaster Risk Reduction in Development Planning and Decision Making Processes

Introduction

The National Emergency Committee (NEC) is an inter-sectoral body that, amongst other matters, assesses development proposals for recommendations to either Cabinet (for national development projects that seek donor or national government funding) or to a licensing/permitting authority (where there is requirement for government approval) before development work commences.

This checklist is to assist the NEC in their assessment role, with particular emphasis on Disaster Risk Reduction (DRR). This checklist is additional to existing criteria the NEC may already utilize to assess projects. A key question often asked is “how will we ensure that the mainstreaming of DRR in developing planning is done?”. The checklist offers a practical tool to central agencies for screening development projects in order to ensure that DRR criterion have been incorporated into the development planning and decision-making processes.

The checklist (in whole or in part) may be used to assess how and where development projects for Construction/Infrastructure Development, Health and Nutrition, Water and Sanitation, Livelihoods, Education, Environment and Disaster Management have considered and incorporated appropriate DRR consideration. These sectors are highlighted as they are the sectors where the majority of development proposals emanate from (this is true for Palau and also for the wider Pacific region as well), but more significantly they are the sectors highly vulnerable to disasters. When these sectors are affected by disasters the impacts are felt right through from the national level to the community level in terms of socio-economic and environmental costs.

The Use of the Checklist

The ‘Checklist’ is a guide for the NEC to assess the level of DRR mainstreaming in development planning and is a tool to ensure the key aspects of DRR have been considered and incorporated into the development planning process right through to the envisaged implementation.

The checklist is developed in relation to the range of sectors in the national economy which are highly vulnerable to disasters. Thus there is a ‘list of considerations’ under each sector. The ‘considerations’ are as follows:

a. Policies and legislation
b. Sustainability
c. Advocacy and awareness
d. Coordination and capacity development
e. Risk Proofing and monitoring
f. Engagement of local bodies and communities

The intention is that at the National level, for example at the NEC, and also at agency and State level, key policy and technical advisors can use the checklist to ‘quality test’ development projects or proposals. This ‘quality testing’ would be undertaken in relation to the broad headings listed above at (a) – (f).

It is important to note that whilst the checklist is structured along sector lines, those using it have the ability to apply the different criteria across the various sectors where a development project for example spans more than one sector. For example, a development project may...
have a component in the Construction sector with two others under Education and Water or Livelihoods and Environment. Therefore the key checklist questions to ask would be drawn from each of the sectors as relevant to the particular project. For major capital projects the NEC would determine the extent of usage of sector specific checklist criteria. For minor investments the decision could be retained at agency level.

On occasion the NEC may require more information on DRR from the proponent of a particular project or require further expert advice from technical agencies that may not be a member of the HMSC. If this is the case they should follow the normal process as already established by the requirements in the development planning process.

As the NEC gains experience with the use of the checklist it may consider further streamlining or customization. The scope of the checklist as it is now is very broad to cover a wide range of development proposals.

**Potential Impact of the Checklist on Existing Planning and Related Legislation**

The checklist proposed herein may have some implications on the existing systems of development planning and decision-making. Some of these existing systems are the product of various legislations developed by central agencies and also sectoral agencies over a period of time to address a range of national imperatives.

If the checklist is endorsed as a mechanism to strengthen the consideration of disaster risk in National, sectoral, State-level and community development plans, efforts need to be made to revise all existing legislation to ensure consistency. A first step in this process can be taken through the development of new supporting legislation for the 2010 National DRM Framework. Eventually though, other relevant legislation should undergo scrutiny and revision.

**The Checklist**

1. **CONSTRUCTION/INFRASTRUCTURE DEVELOPMENT**

   a. **Policies & Legislation:**
      - Building/construction code or quality standards & guidelines for infrastructure focus on hazard-resistant construction and selection of construction sites
      - Policy in place to guide the clearing of forested areas and other areas vulnerable to land slide/erosion and in key watershed areas
      - Pre-planning and engineering techniques used taking into account the social and environmental setting or conditions of vulnerable areas

   b. **Sustainability:**
      - Major donor (external, national) – national (government – private sector)
      - Level of national/local government funding for project implementation
      - National/local government (or donor) funding going to risk reduction components
      - Level of benefits going to the national agencies or community groups
      - Project/program implementation continuation/sustainability/self-running after donor (including national/local government) funds ends
      - Capacity (DRR) transferred to community hosting the project
c. **Advocacy & Awareness:**

- Implementing agencies and beneficiaries are aware of new construction techniques
- Business and families are encouraged to prepare household/business disaster preparedness/continuation plans for key hazards
- Communities are aware of hazard resistant/proof construction technique

d. **Coordination & Capacity Development:**

- Institutional arrangements are in place to promote use of hazard/disaster-resistant techniques including retrofitting
- Necessary technical training is imparted to implementing staff and inspectors, national and local government and NGOs, on DRR in reconstruction (e.g. hazard analysis for site location, awareness on how to monitor hazard resistant construction etc)
- Builders are trained in hazard resistant construction
- Encourage the use of local or traditional hazard resistant construction using local materials if available

e. **Risk-proofing & Monitoring:**

- Retrofitting of existing community facilities such as halls/houses/churches and evacuation centers are being done to meet the specification of hazard resistant standards recommended by the Building Code
- Quality of construction is monitored through regular inspections
- Third party check on new construction quality and adequateness

f. **Engagement of Local Bodies & Communities:**

- Community groups are trained on appropriate construction techniques and assistance are provided in the form of finances, building materials, and DRR engineering services
- Communities are trained in quality monitoring
- Sound traditional designs/structure and material promoted by the community

2. **LIVELIHOODS**

a. **Policies & Legislation:**

- Land use planning technique is used for livelihoods planning
- Policy for tourism planning to incorporate risk reduction strategies

b. **Advocacy & Awareness:**

- Institutions like Agriculture or Resources and Development have long term strategy for agricultural development
- Vocational training is imparted to affected people including women and the most vulnerable
- Small entrepreneurs have developed business contingency plans
- Encourage and explore linkages with existing private sectors and new entrepreneurs
c. **Coordination & Capacity Development:**
- Economic training programs are launched for small entrepreneurs and self-employed
- Maximum support is given to revitalization of small industries with special focus on women and disadvantaged groups
- Use of locally available material and traditional livelihoods is supported and encouraged
- Partnerships have been formed for micro-credits and micro-insurance

d. **Risk-proofing & Monitoring:**
- Income-generation activities are piloted for up-scaling
- Comprehensive risk assessment of the land for agriculture is done
- There are changes in crop pattern and growing of resistant/alternative crops
- Alternative viable livelihoods are mapped, including market linkages
- Access to financial assistance for risk reduction is improved (e.g. insurance is offered to small enterprise owners and workers on livelihood assets; agreements in place for reduced interest rates or grace period for loan repayments etc.)

e. **Engagement of Local Bodies & Communities:**
- NGOs, community groups (self-help groups) are organized and assisted in training for developing livelihoods
- Women have been trained in viable economic activities
- Contingency funds at the local government and community level are created
- Vulnerable groups are prioritized for assistance either in service provision or assistance with planting materials etc.

3. **HEALTH AND NUTRITION**

a. **Policies & Legislations:**
- Quality standards & guidelines for infrastructure focus on hazard-resistant construction of hospitals and health facilities/centres
- Policy for safe/strategic location of new hospitals/health centres

b. **Advocacy & Awareness:**
- Health workers are aware of MoH Plans on medical preparedness and mass casualty management for disasters
- Hospital disaster management toolkits, community health workers manuals etc are available for health workers to use

c. **Coordination & Capacity Development:**
- Health training: volunteers and community health workers are trained on various aspects of health and hygiene during emergencies
- Health centers are strengthened (e.g. safe structure, DRM training for workers, more staff during risk prone season etc.)
Health workers are involved in disaster preparedness efforts
A contingency plan exists for health services and delivery during a State of Emergency or Disaster

d. Risk-proofing & Monitoring:
- Primary health centers and community health centers are fully equipped to continue functioning during disasters

e. Engagement of Local Bodies & Communities:
- Communities are trained in counselling skills to deal with post-disaster trauma

4. WATER AND SANITATION

a. Policies & Legislations:
- Policy on waste water recovery includes provisions on upgrading facilities in terms of disaster resistance and accessibility
- Disaster Risk Reduction is integrated into Watershed Management Program

b. Advocacy & Awareness:
- Water-use and sanitation awareness programs and materials are available for the local communities

c. Coordination & Capacity Development:
- A contingency plan exists for service delivery system for water and sanitation during State of Emergency or disaster

d. Risk-proofing & Monitoring:
- Risk assessment is done for site-location of water pumps, supply systems, drainage & sewage systems, sanitation facilities etc.
- Construction of community drainage systems, sanitation facilities, waste management system etc. is risk-proof

e. Engagement of Local Bodies & Communities:
- Quality control is exercised by the community by participating in the risk proof creation of community drainage systems, sanitation facilities, waste management etc.
5. EDUCATION

a. Policies & Legislations:
   - Quality standards & guidelines for infrastructure focus on hazard-resistant construction of schools
   - Land-use planning technique used for planning for new schools
   - Schools have disaster management plans
   - School locations and construction assessed/monitored for hazard resistance

b. Advocacy & Awareness:
   - DRR lessons in school curriculum advocate safe behaviour
   - Publicity material and pamphlets for general public advocating need for safety in schools

c. Coordination & Capacity Development:
   - Education & training on disaster risk management including for teachers
   - Schools conduct disaster preparedness programs (e.g. mock drills, first aid, search and rescue, swimming and crowd management training)
   - A contingency plan exists for continuing education

d. Risk-proofing & Monitoring:
   - School safety norms are followed in construction of safe schools
   - Risk assessment done in site-selection and building new schools
   - Retrofitting of existing schools

e. Engagement of Local Bodies & Communities:
   - Training of local bodies on auditing school building infrastructure.

6. ENVIRONMENT

a. Policies & Legislation:
   - Environment regulations are adhered to and include hazard considerations (e.g. EIAs for all development projects including recovery projects incorporate disaster risk assessments)
   - Institutions to update state, district and local disaster management plans reflect current needs and priorities for disaster risk mitigation, adaptation and recovery

b. Advocacy & Awareness:
   - Need for mitigation planning and implementation during ‘normal times’ and safe construction/reconstruction are advocated
   - Public information on quality control is spread
   - There is awareness on climate change mitigation (energy saving) and adaptation
c. **Coordination & Capacity Development:**
   - Capacity development or updating disaster risk reduction (and disaster management) plans/action plan
   - Knowledge transfer to other stakeholders (development planners) on factoring and monitoring risk reduction into reconstruction, livelihoods programs and restoration of ecosystems

d. **Risk-proofing & Monitoring:**
   - EIA incorporating Disaster impact assessment
   - Eco-systems that contribute to risk reduction are restored (e.g. forestation, conservation areas)
   - A monitoring program to investigate/assess how development or eco-systems are managing risks

e. **Engagement of Local Bodies & Communities:**
   - Quality control by beneficiaries
   - Community-based risk assessments are done
   - Community early warning systems are in place