

National Power Corporation

RISK MARCEMENT MARUAL



RISK MANAGEMENT MANUAL

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Prepared:
 (Original Signed)

S. P. VILLAFUERTE

EIALD-EMD, Mgr. &

RAMP Team Leader

Reviewed:
(Original Signed)
K. S. CELINO
VP, PES &

RAMP Leader

Endorsed:
(Original Signed)

D. S. SEDILLA
Sr. VP/COO &
Chief Risk Officer

Approved:

(Original Signed)
MA. GLADYS CRUZ-STA.RITA

President & CEO

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Section Title : POLICY AND PRINCIPLES

Subject : **Risk Management Policy**

RISK MANAGEMENT POLICY

NPC is committed to effectively and efficiently manage risks in all levels of operations to maximize gains from opportunities and minimize or eliminate losses from adverse impacts. We focus on quality service, protection of the environment, safety and reliability of power plants, systems and dams, and the sustainability of watershed areas.

Our risk management framework and policy are reviewed periodically and improved as necessary to address the changes in the external and internal contexts and to keep it consistent with corporate objectives and policies.

Resources are provided and managed to support responsibilities, accountabilities and processes to achieve risk management objectives.

Implementation of risk management is consistent, structured, coordinated and responsive to effectively control significant risks in the organizational processes.

Stakeholders' concerns, determined through employee survey, customer and suppliers' feedback, public perception survey and media commentaries, are properly addressed and communicated.

Key Performance Measures are established and used to monitor and evaluate risk management objectives periodically for continual improvement.

(Original Signed)

MA. GLADYS CRUZ-STA. RITA President & CEO



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Section Title : FRAMEWORK

Subject : General Requirement

1.0 General

The risk management framework sets the general strategy and provides the foundations and arrangements that will integrate risk management in all processes and activities. The framework assists in managing risks effectively through the application of the risk management process. It ensures that risk information is adequately reported and reviewed as basis for decision-making and accountability at all relevant levels of the NPC organization.

NPC shall undertake a process of continual improvement of risk management system based on the Plan-Do-Check-Act (PDCA) Cycle, as shown in Figure 1:

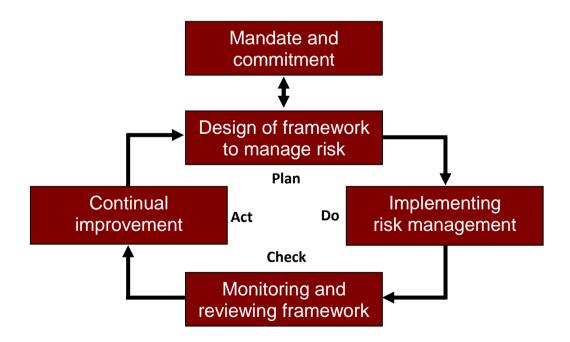


Figure 1: Risk Management PDCA Cycle

Prepared:
 (Original Signed)
 S. P. VILLAFUERTE
 EIALD-EMD, Mgr. &
 RAMP Team Leader

Reviewed:
(Original Signed)

K. S. CELINO

VP, PES &

RAMP Leader

Endorsed:
(Original Signed)

D. S. SEDILLA
Sr. VP/COO &
Chief Risk Officer

Approved:

(Original Signed)
MA. GLADYS CRUZ-STA.RITA

President & CEO

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- **Plan** design the risk management framework. It covers organizational context, risk appetite or tolerance, risk management policy, plan and processes, communication strategies, authorities and responsibilities.
- **Do** implement the risk management framework and the processes for risk assessment, risk communication and consultation, and personnel competency development.
- **Check** monitor and review the risk management framework, processes and plan, and business plan using Key Performance Measures (KPM) and targets.
- **Act** revise and improve the risk management framework, processes, plans, KPM and targets.



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Section Title : FRAMEWORK

Subject : **Implementing Risk Management**

1.0 Implementing the Framework for Managing Risk

In implementing the risk management framework, NPC shall:

- a. define the appropriate timing and strategy for implementing the framework;
- b. apply the risk management policy and process to the organizational processes;
- c. comply with legal and regulatory requirements;
- d. ensure that decision making, including the development and setting of objectives, is aligned with the outcomes of risk management processes;
- e. ensure that the information and training sessions are conducted at all levels of the organization; and
- f. communicate and consult with stakeholders to ensure that its risk management framework remains appropriate.

2.0 Implementing the Risk Management Process

NPC's risk management process as shown in Figure 2, is applied through a risk management plan at all levels and functions of NPC as part of its practices and processes. The details are provided in the Risk Management Procedures.

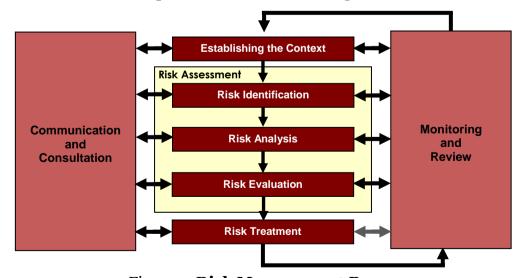


Figure 2: Risk Management Process

Prepared:
 (Original Signed)
 S. P. VILLAFUERTE
 EIALD-EMD, Mgr. &
 RAMP Team Leader

Reviewed:
(Original Signed)

K. S. CELINO

VP, PES &

RAMP Leader

Endorsed:
(Original Signed)

D. S. SEDILLA

Sr. VP/COO &
Chief Risk Officer



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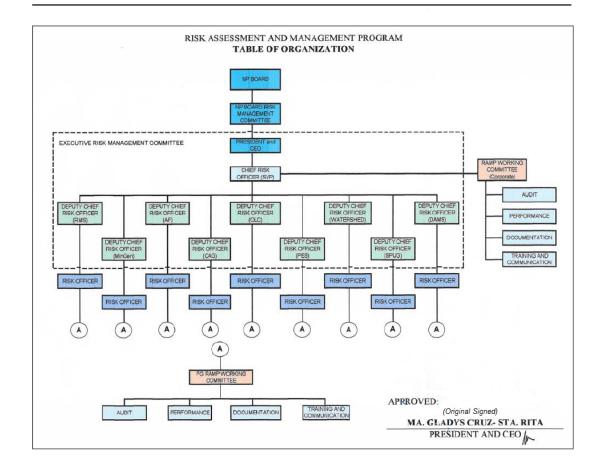
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Section Title : APPENDICES

Subject : RAMP Organization



Prepared: (Original Signed)

S. P. VILLAFUERTE EIALD-EMD, Mgr. & RAMP Team Leader Reviewed:
(Original Signed)

K. S. CELINO VP, PES & RAMP Leader Endorsed:

(Original Signed)

D. S. SEDILLA

Sr. VP/COO &
Chief Risk Officer

Approved:

(Original Signed)

MA. GLADYS CRUZ-STA.RITA
President & CEO

NPC Risk Management Measures and Programs

Dieke	Disk Treatment			
Risks	Risk Treatment			
A. Missionary Electrification				
Fuel Supply Shortage	Fuel Management Program/Manual			
	Refleeting and Genset Procurement Program			
2. Forced Outages of Plants	Plant Preventive Maintenance Program			
I revea catages or rains	Collaboration with Electric Cooperatives regarding			
	clearing of transmission/distribution lines right-of-way			
	Proper handling, storage & disposal of waste/used oil			
	Proper handling and storage of fuel			
3. Oils Spill	Periodic inspection of fuel tanks/lines/pumps/valves			
5. Olis 5pili	Oil Spill Contingency Plan			
	Insurance Coverage			
	Environmental Guarantee Fund			
4. Fuel Pilferage	Security Plan, fuel sounding/inventory and reporting			
B. Dams/Reservoir Operation and Management				
1 Dam Facility Defects/Failures	Dam Safety Inspection & Assessment Procedure			
1. Dam Facility Defects/Failures	Periodic dam safety study			
2. Flood Inflows	Flood Forecasting & Reservoir Operation Protocols			
3. Flood Releases	Flood Warning System & Reservoir Operation Protocols			
4 Negative Public Percention	Information, education & communication (IEC) on			
4. Negative Public Perception	Flood Forecasting/Warning System & Dam Operation			
C. Watershed Management				
Reduced forest cover and	Reforestation, afforestation, forest protection			
reduced water inflows/yield in	information, education & communication (IEC)			
hydropower reservoirs	alternative livelihood programs			
nydropower reservoirs	enforcement of laws/regulations			
D. Power Project Management				
1. Poor Performance of	Non Issuance of Certificate of Satisfactory Performance			
Contractors	Provision for Liquidated Damage & blacklisting,			
2. Environmental Impacts of	Environmental Impact Assessment (EIA) process and			
Project	Environmental Management Measures/Plan			
E. Human Resource Management				
1. Competency Gaps	Competency Development Program			
	Corporate Safety Health & Environment (SHE) Manual			
2. Occupational Health/Safety	Personal Protective Equipment			
	Personnel Insurance Coverage			

3. Loss of Manpower/Brain Drain Personnel Succession Plan