

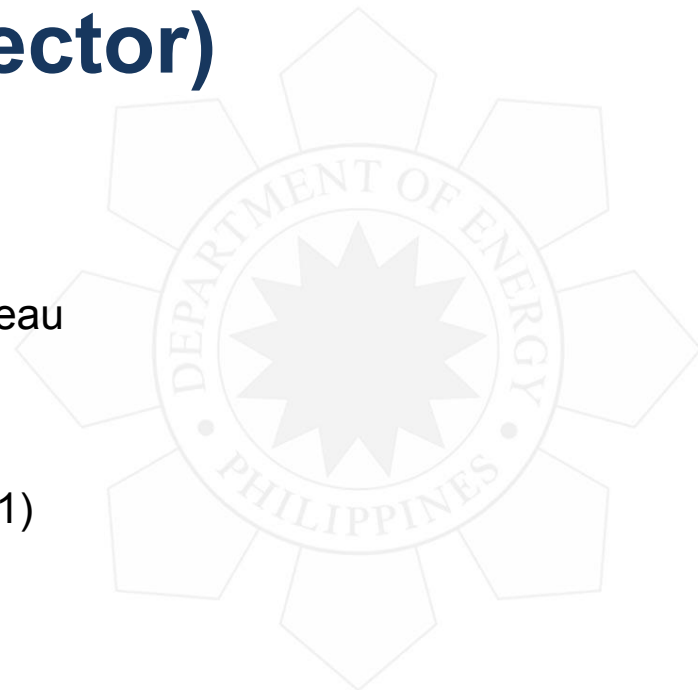


Resiliency Compliance Plan: (DOWNSTREAM OIL & NATURAL GAS Sector)

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Presentation Outline

I

Energy Resiliency Policy

II

Resiliency Compliance Plan (RCP)

III

Energy Resiliency Initiatives





Energy Resiliency Policy

Department Circular No. (DC2018-01-0001)

Adoption of Energy Resiliency in the Planning And Programming of the Energy Sector to Mitigate Potential Impacts of Disasters

Signed by DOE Secretary: 01/17/2018

Published at: The Manila Times and The Philippine Star

Date Published: 01/27/2018

- **Legal Basis:**
 - Republic Act 7638 or the Department of Energy Act of 1992 and
 - Republic Act 10121 or the Philippine Disaster Risk Reduction and Management Act of 2010
- Promote planning and investment on energy resiliency to ensure nation's energy infrastructure continues to deliver while anticipating and reducing vulnerabilities



CATEGORIES	Project Name	Project Description	Project Benefit	Project Start Date	Project Completion Date	Total Project Cost	Status (P, OG, PL, C)*	Yearly Disbursement			
								2017	2018	2019	2020 and Beyond
STRENGTHENING INFRASTRUCTURE											
SYSTEMS ➤ Persons ➤ Facilities ➤ Standard Operating Procedures (SOPs) ➤ Product / Content											
STOCKPILING ➤ Inventory											
RESPONSE & RECOVERY ➤ Pre ➤ During ➤ Post											
Others											

RESILIENCY COMPLIANCE PLAN TEMPLATE



RESILIENCY COMPLIANCE PLAN – OIMB /RCP

Resiliency Program	Oil Companies					
1. Introduction						
a. Rationale						
b. Objectives						
c. Scope and Constraints – 7.2 Magnitude Earthquake						
2. Organization, Responsibilities and Communications						
3. Business Impact Analysis						
a. Risk Assessment						
i. Facilities – depots/ retail stations						
ii. Logistics – distribution channels						
iii. Communication						
iv. Organization						
v. Security						
b. Impact Analysis						
i. Critical Business Processes						
ii. Cost Impact						
4. Business Continuity/ Resiliency Plan						
a. Preparedness and Mitigation						
b. Response						
i. Immediate Response – 1st 3 days						
ii. Sustained response – until normal operations of the damaged facilities						
c. Recovery and Rehabilitation Plan						
i. Projects/ Activities						
ii. Costs						
iii. Timeline						
d. Security Protocol						
5. Resiliency Plan Testing, Review and Audit						
6. Mutual Aid Agreement						
7. Government Role/Support						



OIMB's Principle.....

“THE **RESILIENCY** OF THE DOWNSTREAM OIL FACILITIES SHALL BE DEFINED BY THE **STRENGTH** OF DOE'S **CONTINGENCY PLANNING** AND THE **EFFICIENCY** OF OUR **EMERGENCY RESPONSES**”



CATEGORIES IN THE RESILIENCY COMPLIANCE PLAN



Strengthening
Infrastructure

Structural measures are any physical construction to reduce or avoid possible impacts of hazards, or the application of engineering techniques or technology to achieve hazard resistance and resilience in structures or systems.



STRENGTHENING INFRASTRUCTURE

(SAMPLE ACTIVITIES)



OIMB's Principle..... Facility Standards Development

- RESILIENCY STATEMENT – emphasizes to a facility owner/s to not just consider technical or engineering operational parameters of the facility but to also be cognizant of local or unique conditions in their areas of operation and thereby incorporate additional parameters in their engineering designs or operational processes and safety codes.
 - A component to this is the Resiliency Statement by which the owner/operator must prove is that their facility shall now be able to withstand or be resilient to the following:
 - Recorded highest earthquake strength recorded in the area.
 - Expected impact of typhoon wind or local area flooding or storm surge.
 - Age of the facility or equipment vs. expected level of operation
 - In the event of power supply disruptions, to have provisions for back-up power supply necessary or alternative power supply connections.



CATEGORIES IN THE RESILIENCY COMPLIANCE PLAN



Strengthening
Infrastructure



Systems



Refer to administrative directives, organizations, operational skills and capacities, policies, guidelines, plans to implement strategies and improved coping capacities to lessen the adverse impacts of hazards



SYSTEMS

(SAMPLE ACTIVITIES)



INSPECTION



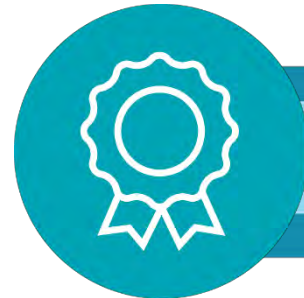
CAPACITY DEVELOPMENT
AND ENHANCEMENT



AUDIT



INVENTORY



STANDARDS



RISK ASSESSMENT



OIMB's Principle..... Codes of Safety Practices

“emphasis is on maintaining systems and procedures intended to ensure safe operation of the facility under normal conditions and additional systems to address emergency situations”

“training of personnel is an investment worth making”

Moving Forward:

- *Soon*, a curriculum of various skills and operational knowledge set applicable to all levels of workers in the downstream oil industry.....in cooperation with TESDA

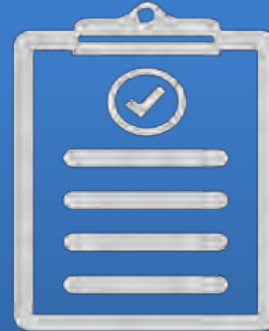


CATEGORIES IN THE RESILIENCY COMPLIANCE PLAN



Strengthening

Refers to the disaster mitigation process of identification and procuring essential inventory items beforehand



Stockpiling



Response and
recovery



STOCKPILING

(SAMPLE ACTIVITIES)



OIMB's Principle..... Contingency Planning

“identifying your vulnerabilities”

Alternative supply points

A chain is only as strong as its weakest link.....

Looking beyond your walls and identify potential hazards, between your facility and your market

Evacuation Areas – [Q1](#), [Q2](#),
[Q3](#), [Q4](#)



CATEGORIES IN THE RESILIENCY COMPLIANCE PLAN

“Response” – refers to the provision of emergency services and public assistance during or immediately after a disaster

“Recovery” – refers to the restoration and improvement where appropriate, of facilities, livelihood and living conditions of disaster-affected communities, including efforts to reduce disaster risk factors, in accordance with the principles of "Build Back Better"



Response and
recovery





Response and recovery

(Sample Activities)

CONTINGENCY PLANNING

BUSINESS CONTINUITY PLANNING

RESPONSE PROTOCOLS

EMERGENCY PLANS

REHABILITATION PLAN

CAPACITY BUILDING ACTIVITIES (DRILLS, EXERCISES)



OIMB's Principle..... *Government's Role*

“SYNERGY”

- PARTNERING
- HELPING
- BEST PRACTICES

COOPERATION

EACH AND EVERYONE HAS A SEAT
AT THE TABLE



ENERGY RESILIENCY INITIATIVES – a summary

1. *PNS STANDARDS DEVELOPMENT*

2. *Preparing for the Big One*

3. *Evacuation Sites*

4. *Alternative Supply Points*

- *Normal*
- *Emergencies*

5. *SYNERGY as an OIMB focus*

- *VULNERABILITIES*
- *COMMUNICATION*
- *COOPERATION (beyond associations)*
- *Government responsibilities beyond your facility walls*

- *RESILIENCY SIMULATION EXERCISES*

6. _____ *NORMALCY*



In times of calamities, what do we really need?

- Are we still competitors? Or COOPERATORS?
 - COMPETITION or SOLUTIONS
 - I? or Us?

SYNERGY.....

GOVERNMENT or GUIDANCE.....

An integrated (COMMAND? OR)
COORDINATING
CENTER

and what do we really stand for?



In closing.....

beyond the **BUSINESS'** bottom line.....

a return to normalcy, even just a sense of **NORMALCY** will translate for the community a sense of.....



HOPE

*and the community can truly BUILD BACK BETTER
towards the road to RECOVERY*





Thank You!



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