



*Nuestra*  
*energía*

ecopETROL

**Operational Continuity  
Plan – VTI (VicePresident  
of Technology and  
Innovation)**

**Ecopetrol Continuity  
Cycle**



# Index

1. Context
2. Operational
3. Loss of Continuity Scenario -  
Technology
4. Next Steps

# PCO Integrator ECP SA

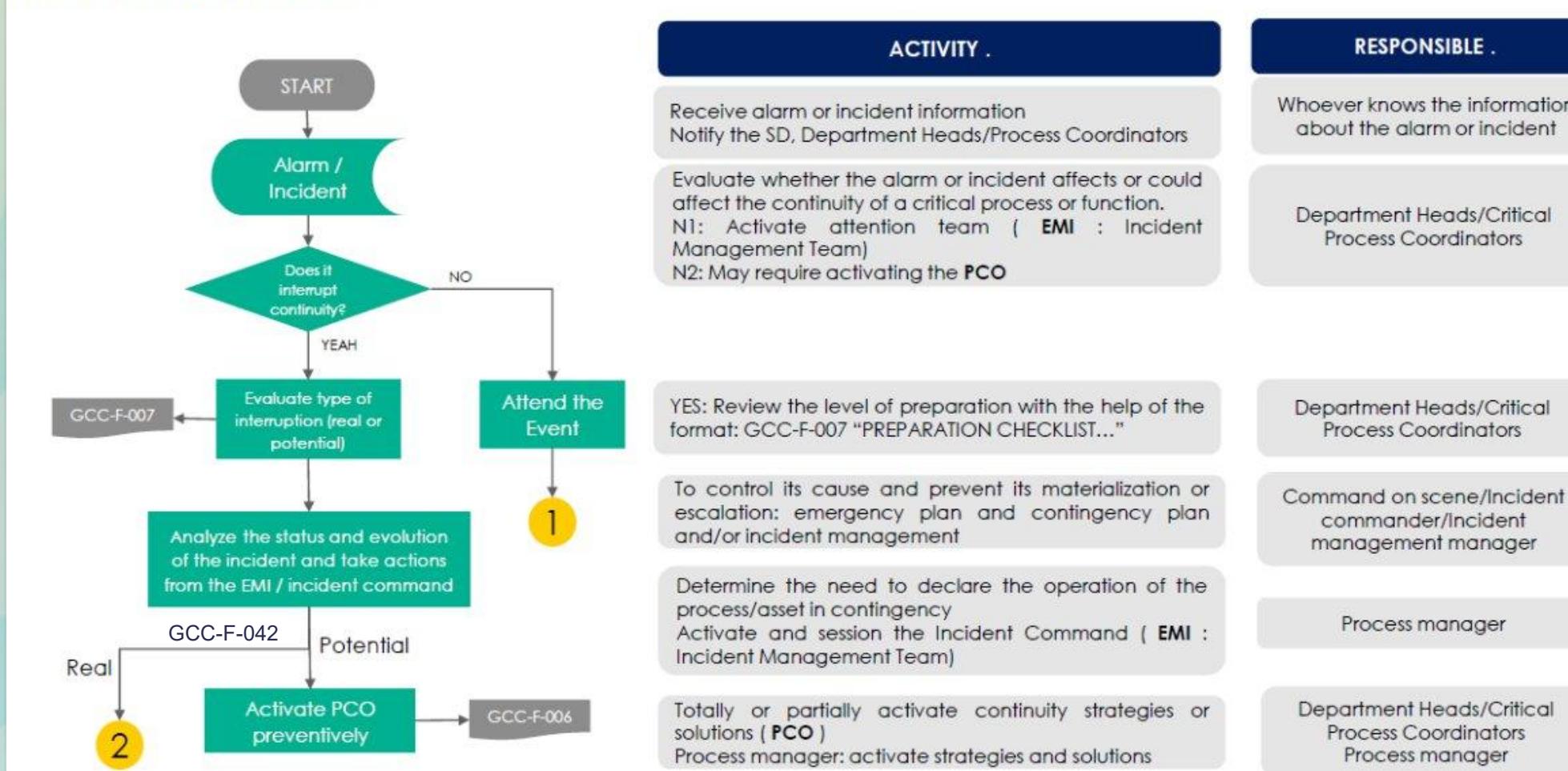


# BIA – Business Impact Analysis



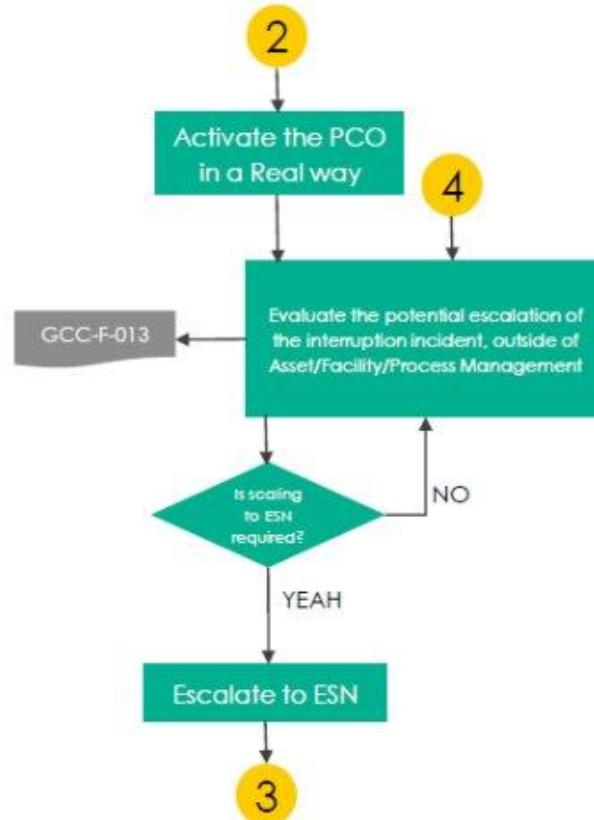
# PCO - Process Operational Continuity Plan

## Activation flow



# PCO - Process Operational Continuity Plan

## Activation flow



### ACTIVITY .

Activate continuity strategies or solutions, according to their impact (PCO)  
Process manager: activate strategies and solutions

### RESPONSIBLE .

Process manager

Evaluate potential of the event? Can it overcome the handling and delegation of Management?  
Establish the need for resources of the VP or  
Identify consequences that require further escalation

Incident Commander  
(Report findings)

ESN  
YES: Escalate to VP ESN

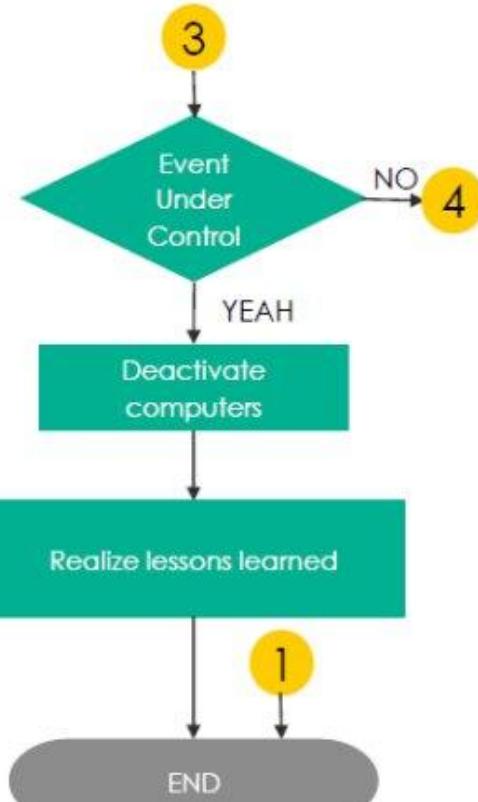
Incident Commander

Greater management capacity, affecting continuity of the VP or business segment or Crisis N5: Escalate to the CCE : Business Crisis Committee

Incident Commander

# PCO - Process Operational Continuity Plan

## Activation flow



ACTIVITY .	RESPONSIBLE .
Managed at the asset/process level Monitor and evaluate the situation. Maintain plans and equipment at each level. Return to the stage of analyzing status and evolution.	Incident command
Disable response teams. Start activities to return to normality Incident closure Carry out post-incident activities	Incident command Delegated team
Perform lessons learned and report them - Of real activations (term 1 month) - Preventive activations (every end of quarter)	Practice Leader and/or Service Coordinators/Leaders VoBo Manager reports delivered



## **CONTINUITY SCENARIO** **Operational Continuity Plan –PCO**

Scope and Objectives Test PCO-VTI  
2025

# Objetivo y sentido de este plan



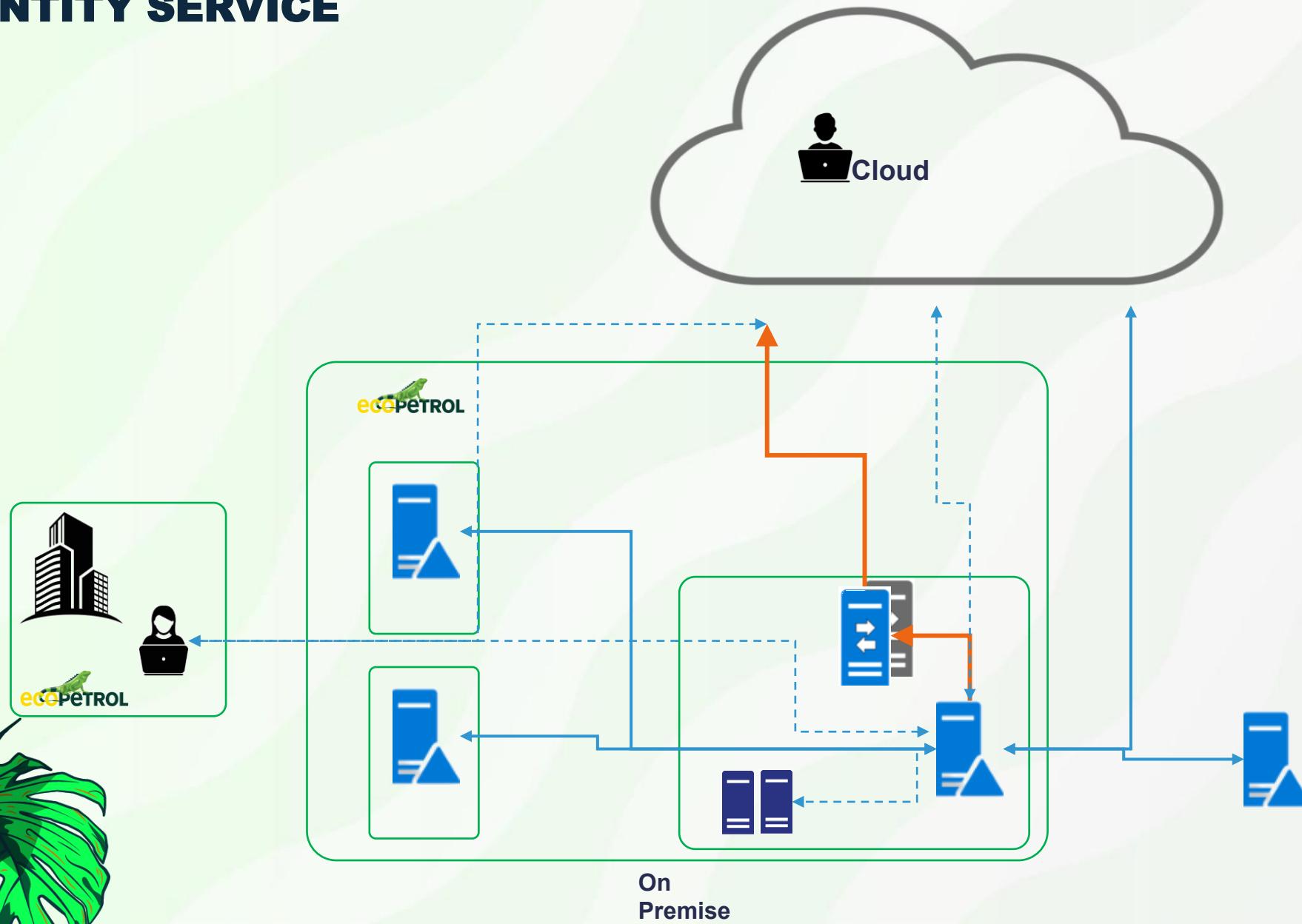
## GENERAL OBJECTIVE OF THE TEST:

The main objective of the test is to simulate the activities to be carried out when an incident occurs of the deletion of all network accounts in Onpremise/cloud, in order to increase the capacity of the VTI to anticipate and respond to this type of incident.

## SPECIFIC SCOPE

- Event Identification (Detection)
- Log incidents arising from monitoring tool
- Activation of Response and Notification (Alarm)
- Incident Management
- Team (EMI) Activation
- Activation of the Business Support Team
- Human Resources Enlistment
- Definition and Control of Necessary Resources
- Clarity in Assumed Roles
- Clarity in the activities to be carried out
- Control Response Standard Operating Procedures
- Analysis of Operational Continuity Impacts
- Operational Communications towards Continuity (Business Support)
- Using Documentation and Templates in Incident Command Activation
- Incident
- Command activity logging and tracking
- Ensure service restoration

# ARCHITECTURE IDENTITY SERVICE



# Nuestra energía

The logo for Ecopetrol, featuring a green iguana above the word "ecopetrol" in a stylized font.

# Scenario to be tested according to PCO VTI

Business Continuity Scenario -GE	PCO Scenario	Sub-stage	Variant
Disruption of critical IT/OT applications and services due to technology disaster	ECO-006 availability Non- of Technology.	SUBECO-006-01 Unavailability of IT applications	Unavailability of access to network accounts that allow access to Microsoft 365 services (Outlook, SharePoint, Teams and other applications linked to Active Directory)



# ASPECTS OF THE TEST

# Process continuity loss scenarios - Infrastructure - Applications

AIM: Unavailability of access to network accounts that allow access to Microsoft365 services (Outlook, SharePoint, Teams and other applications linked to Active Directory)

RTO: 8

RPO: 24

**Critical Process:** Technology and Innovation  
**Threat:** Human error or a cyberattack that deletes or disables all Active Directory accounts, impacting all solutions that rely on this authentication.  
**Activity:** Restore the service as quickly as possible.  
**Procedure:** Activate critical accounts based on priority

**Scope:** Obtain an email distribution list of all critical solutions to be restored via script; subsequently restore the replication across the entire organization and activate the remaining accounts.

Risks (H-VH): Cyberattacks, human errors, technological operational incidents.

# Test Topics

## Beginning:

### Creating temporary accounts

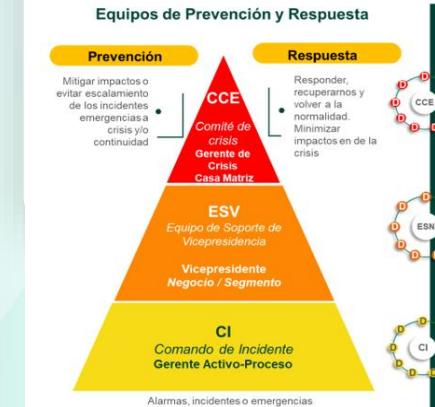
List of Ecopetrol users with critical functions to activate temporary accounts with a script

### Incident Resolution

Incident analysis from service status review, incident notification in whatsapp chat for critical/high/massive incidents, creation of crisis room, creation of emergency accounts, Backup Recovery On-premise synchronization to cloud: Service verifications and closure of the incident in service manager and whatsapp chat.

### PCO VTI Activation

#### Incident Command

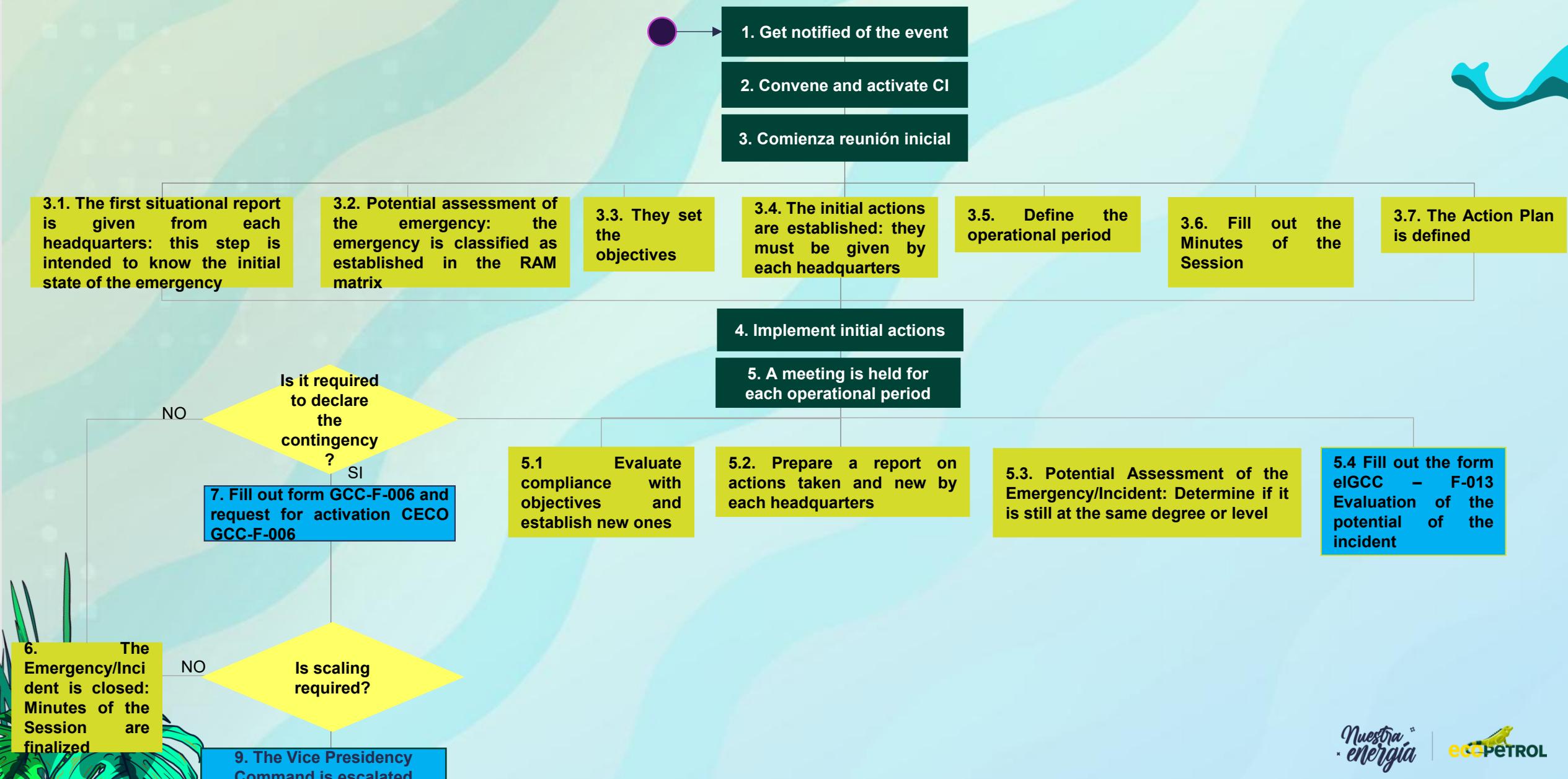


### Communications

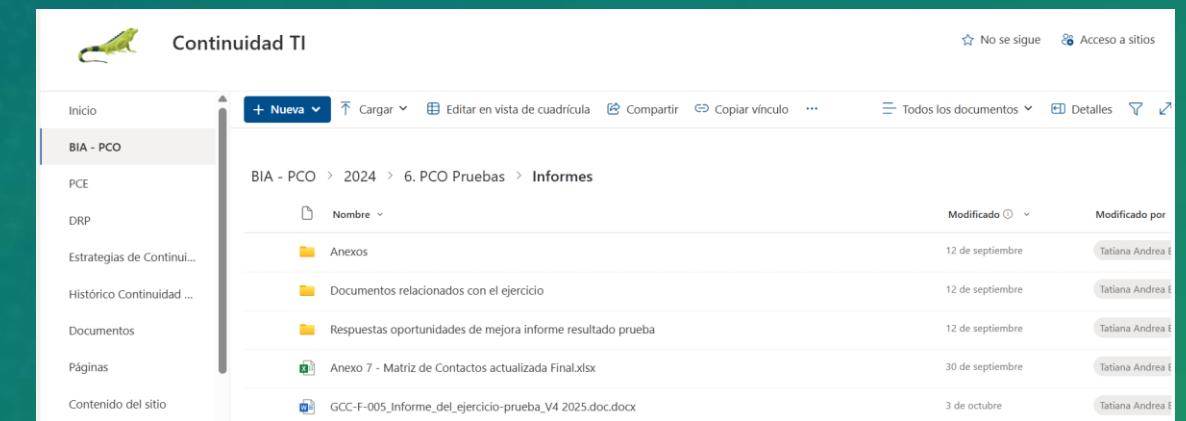
Communications to keep other PODs and service leaders, affiliates, and other operational areas of VTI informed

# PCO - Process Operational Continuity Plan

## How the Command Operates



# Test Documentation



The screenshot shows a SharePoint document library interface. The title bar reads "Continuidad TI". The left navigation pane shows a hierarchy: Inicio, BIA - PCO (selected), PCE, DRP, Estrategias de Continuidad..., Histórico Continuidad..., Documentos, Páginas, and Contenido del sitio. The main content area shows a list of files under "BIA - PCO > 2024 > 6. PCO Pruebas > Informes". The list includes:

Nombre	Modificado	Modificado por
Anexos	12 de septiembre	Tatiana Andrea E
Documentos relacionados con el ejercicio	12 de septiembre	Tatiana Andrea E
Respuetas oportunidades de mejora informe resultado prueba	12 de septiembre	Tatiana Andrea E
Anexo 7 - Matriz de Contactos actualizada Final.xlsx	30 de septiembre	Tatiana Andrea E
GCC-F-005_Informe_del_ejercicio-prueba,V4 2025.docx	3 de octubre	Tatiana Andrea E

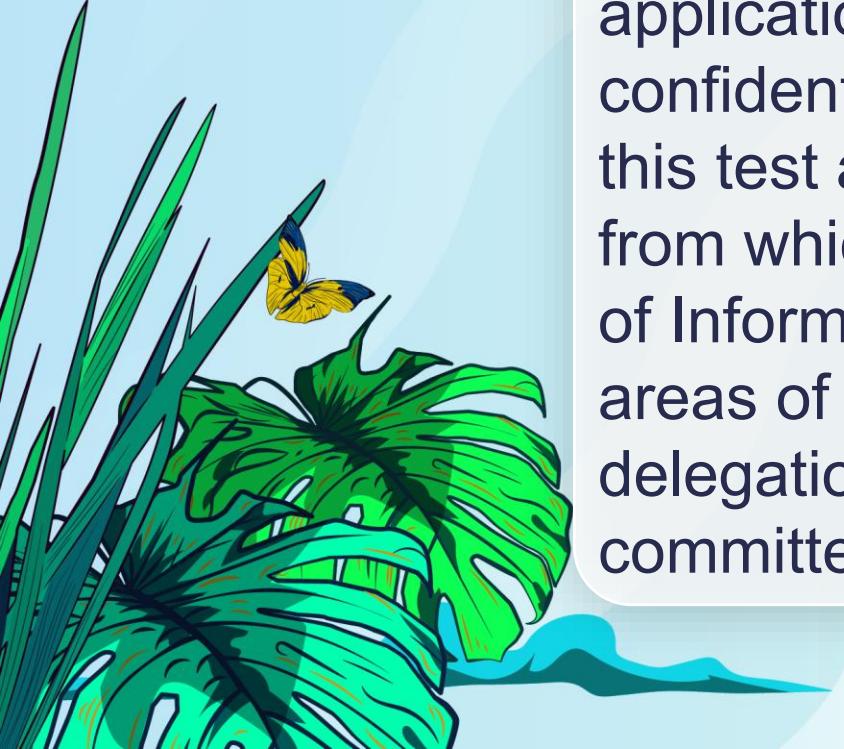


# **CONTINUITY SCENARIO**

## **Strategic Continuity Plan -PCE**

Scope and Objectives  
Test PCE-VTI 2025

## Scope PCE

A decorative illustration in the bottom left corner features a variety of tropical plants, including a large monstera leaf and several long, thin palm-like leaves. A small, colorful butterfly with yellow, blue, and black patterns is perched on one of the leaves. The background is a light blue gradient.

In 2025, the Strategic Continuity Plan (PCE) test was also conducted in conjunction with the business continuity team, using a scenario involving a cyber incident affecting the ROMSS application at the Barrancabermeja refinery. Due to confidentiality requirements, the documentation and results of this test are handled by Ecopetrol's Continuity Governance team, from which the IT continuity practice of the VTI (Vice Presidency of Information Technology) receives its guidelines. Business areas of the refinery were involved in this test, and the delegation protocol was activated to notify the corporate crisis committee.



— G R A C I A S —