



NEC Network Emergency Exercise - Exercise Prelude

Paul Youngman Emergency Planning Manager (GNCC)

nationalgrid

The power of action.™

Emergency Overview

- ◆ Definitions of Network Gas Supply Emergency
- ◆ What obligations exist
 - Requirements and obligations of the Gas Safety Management Regulations 1996
 - Role of the Network Emergency coordinator
 - User obligations and responsibilities
- ◆ Stages of emergency
- ◆ Exercise Prelude
 - When is it taking place
 - What is in and out of scope
- ◆ Things to think about

Network Gas Supply Emergency Definitions

A 'supply emergency' means an emergency endangering persons and arising from a loss of pressure in a network or part thereof (GSMR Reg 2.1)

Gas Supply Deficit

- Occurs whenever there is insufficient gas available in the NTS to maintain a National supply / demand balance
- "On-the-day Commodity Market" (OCM) - NG actions as residual system balancer would be suspended at Stage 2
- Generally short duration

GS(M)R Safety Monitor Breach

- If the safety monitor is breached for any storage type, the NEC will declare an emergency
- This type of emergency could be protracted and stay in place until either
 - The storage gas above the monitors is replenished, or
 - The monitor levels decline as the winter ends
- Protected by isolation consumers would be emergency interrupted or firm load shed
- "On-the-day Commodity Market" (OCM) – NG residual system balancer actions suspended at Stage 2

Critical Transportation Constraint

- Occurs when the Primary Transporter is unable to maintain adequate pressures at specific gas offtakes from the National Transmission System (NTS)
- Various options to reduce local demand are available in such an emergency
- A key difference being that the "On-the-day Commodity Market" (OCM) not affected
- Generally short duration

Key requirements under Gas Safety Management Regulations 1996

- ◆ To minimise the risk of a supply emergency or minimise its duration (Reg 2.9)
 - A ‘supply emergency’ means an emergency endangering persons and arising from a loss of pressure in a network or part thereof (Reg 2.1)
- ◆ A Network Emergency Co-ordinator (NEC) is required where there is more than one transporter operating on the Network
- ◆ The NEC co-ordinates actions across the industry to prevent or minimise the emergency.
- ◆ Duty of co-operation on all industry participants in the event of an emergency that has the weight of criminal law.
 - Gas Transporters can instruct consumers to stop using gas to avoid or minimise a supply emergency (Reg 6.3)
 - It is preferable for a few large industrial consumers to stop using gas, rather than many domestic consumers (Reg 6.5)
- ◆ NEC must test emergency procedures regularly and report findings of emergency or tests to HSE (Schedule 2.3)

Role of the Network Emergency Coordinator

Typical actions include:

- Where a supply emergency cannot be prevented, the NEC must make timely decisions to minimise the safety consequences.
- Return the Primary System to a Supply / Demand balance.
- Approve the proposed Emergency Strategy put forward by the Network Emergency Management Team. (NEMT)
- Declare each Stage of the NGSE, notifying the industry.
- Authorising the admittance of Emergency Specification Gas.
- Declare the end of a NGSE.
- Testing of the procedures.
- Review the NGSE and issue report to industry.

Uniform Network Code Obligations

Section Q – Emergencies

- ◆ Section defined as fulfilling two purposes
 - Requirements to be complied with by Users
 - Consequences of a Gas Supply Emergency in respect of application of the Code

- ◆ Requirements for users.
 - User contacts
 - Fax and Telephone Contact available 24hr / day as the primary user contact in a Gas Supply Emergency
 - Must have appropriate authority and responsibility
 - Site Contacts
 - Large Firm Supply Points (AQ >25,000 therms)
 - Interruptible Supply Points
 - Power and Authority to comply with directions
 - Contact details to be provided to xoserve for onward cascade to the relevant Transporters.
 - User Emergency procedures
 - User should ensure alignment with section Q and emergency procedures
 - Relevant personnel are familiar with the Emergency Procedures

Summary of Section Q Emergency Contact requirements.

In addition to User contact details the User is responsible for providing the following site emergency contacts. (TPD Q 2.3 and 2.4)

		Large Firm		Interruptible
		>25000 therms	>50000 therms	
Site Manned 24 Hours	24 hour Emergency Contact and Job Title	1-5	1-5	1-4
	Emergency Contact Telephone Number	1-5	1-5	1-4
	Fax		1	1
Site Not Manned 24 Hours	24 hour Emergency Contact and Job Title	3-5	3-5	3-4
	Emergency Contact Telephone Number	3-5	3-5	3-4
	Fax		1	1

Summary of User responsibilities and obligations

Under GSMR

- ◆ Duty of cooperation to comply with directions from the NEC in an emergency.
- ◆ Duty to participate in NEC exercises to test the industries response to an NGSE.

Under UNC

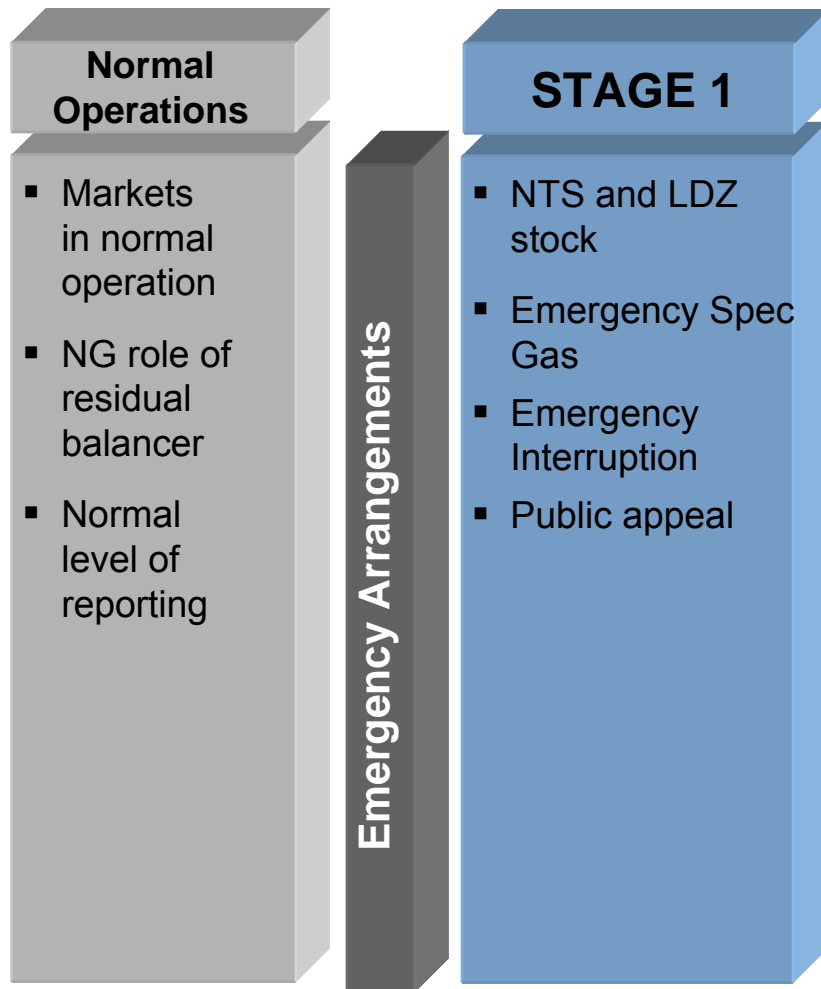
- ◆ User emergency contacts
- ◆ Large firm and Interruptible Supply Point contacts
- ◆ Have own emergency procedures in place

NGSE Stages

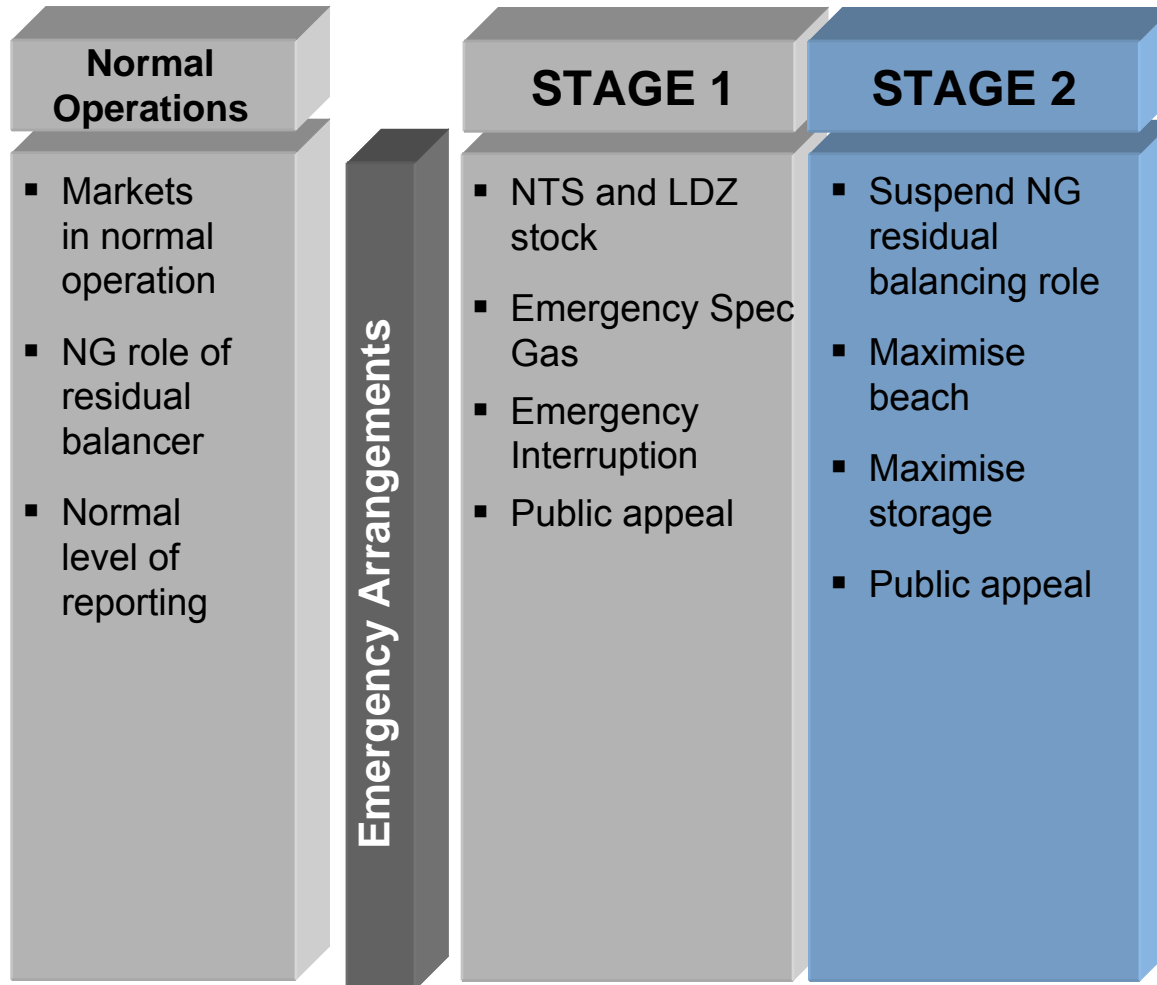
Normal Operations

- Markets in normal operation
- NG role of residual balancer
- Normal level of reporting

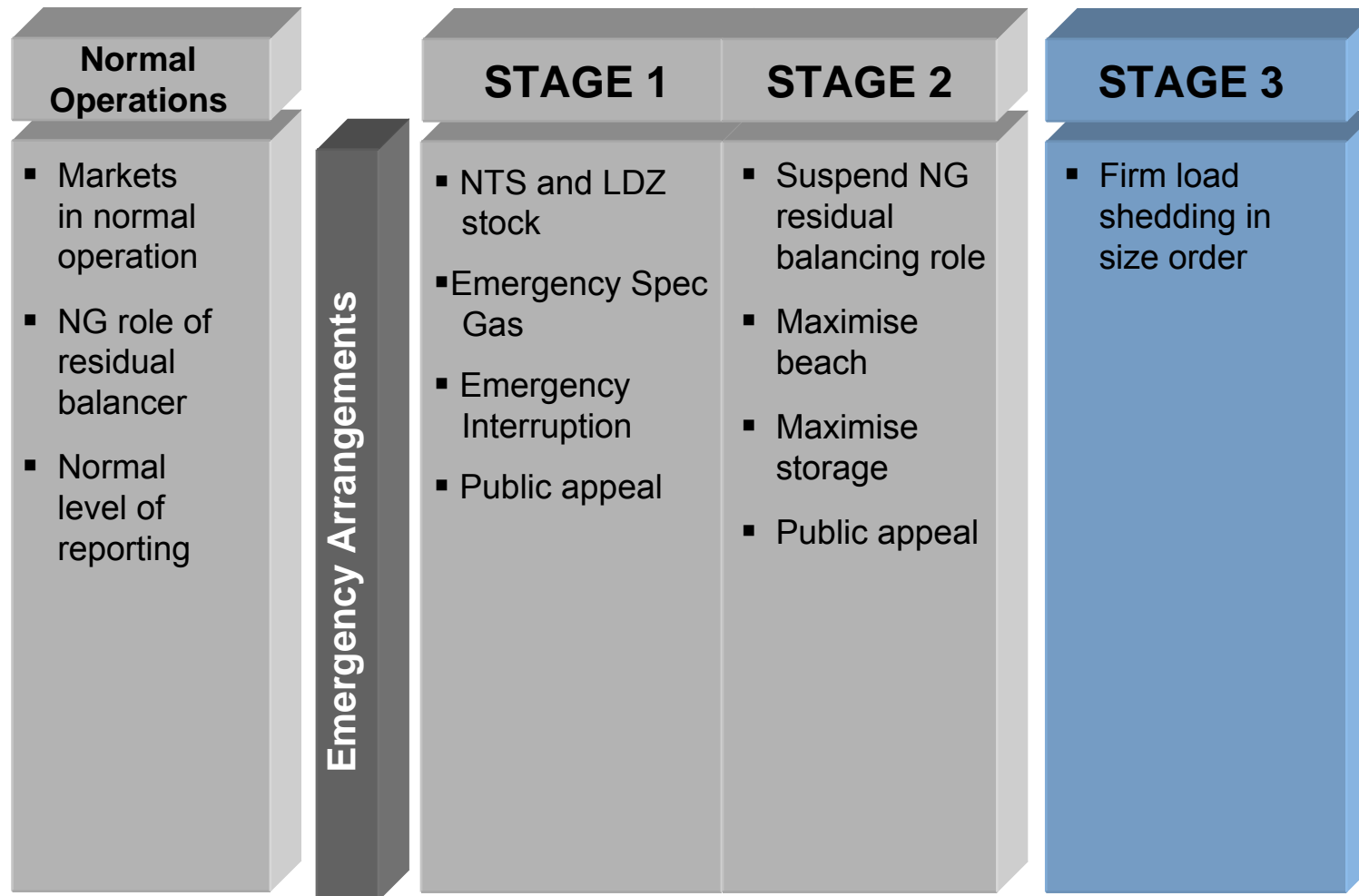
NGSE Stages



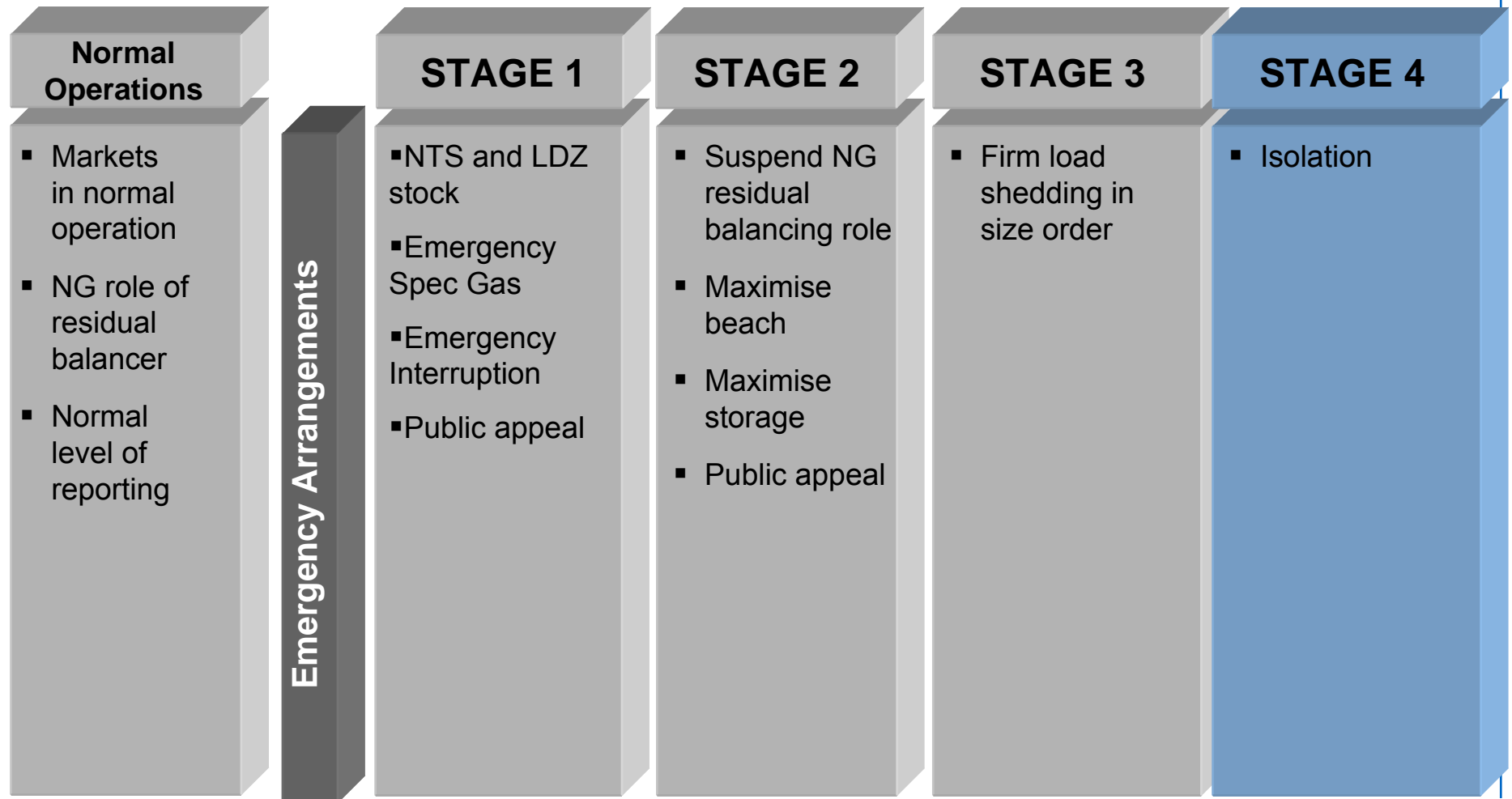
NGSE Stages



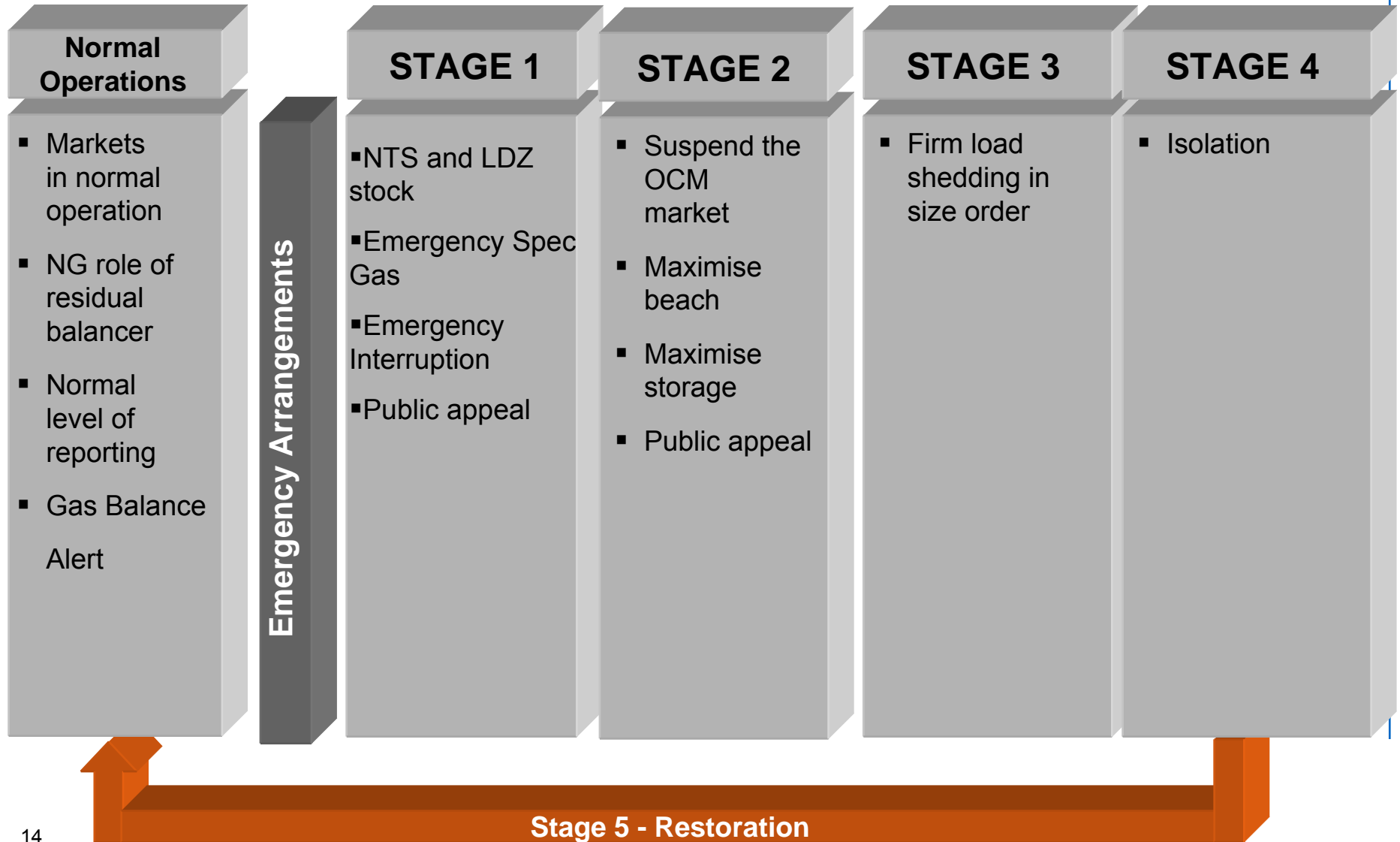
NGSE Stages



NGSE Stages



NGSE Stages



Prelude – Industry Exercise

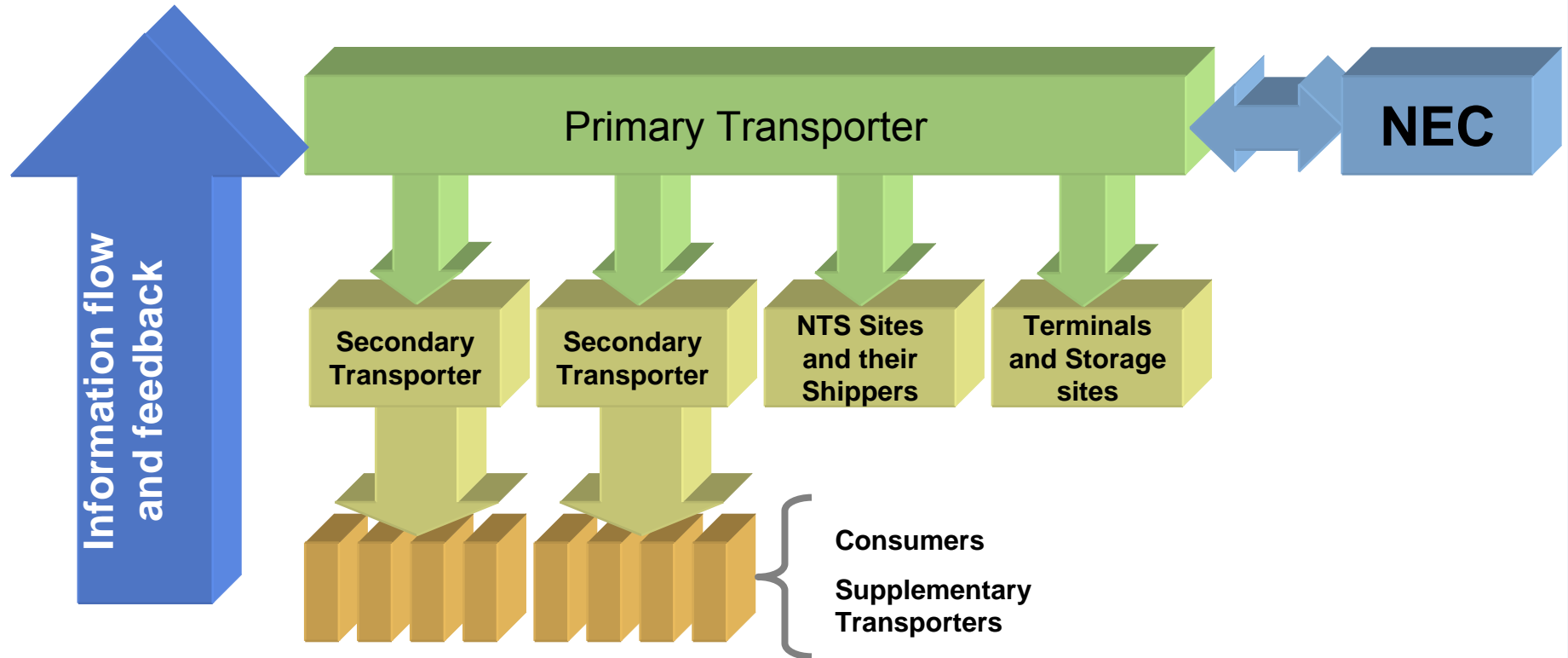
Overall Objectives

- ◆ Test the overall framework of Network Gas Supply Emergency procedures
- ◆ Test communications and understanding across industry.
- ◆ Ensure continuity and alignment of process.

Details

- ◆ Scheduled to take place 5th and 6th November.
- ◆ Scenario will be a progressive NGSE with multiple events over the two days.
- ◆ Will cover all industry participants from the NEC down.
 - Briefing Pack
- ◆ Government and media involvement is out of scope.
- ◆ Terminal and Storage communications will be tested.
 - Data will be simulated.
- ◆ Parallel exercise with Moffat Interconnector

Communication.



Prelude – things to think about.

- ◆ Procedures and training
- ◆ Your responsibilities with respect to contact details
- ◆ Procedures and communications with each of the control rooms
- ◆ Individuals and resources required
- ◆ Log keeping and reporting on the exercise

Contacts

gasops.emergencyplanning@uk.ngrid.com

Paul Youngman **01926 654151**

Claire Baldwin **01926 653232**

Lynn Crooks **01926 653223**