

Emergency Exercise Prelude

Nov 5th and 6th

nationalgrid

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Network Gas Supply Emergency Classifications

Gas Supply Deficit

- Occurs whenever there is insufficient gas available in the NTS to maintain a National supply / demand balance

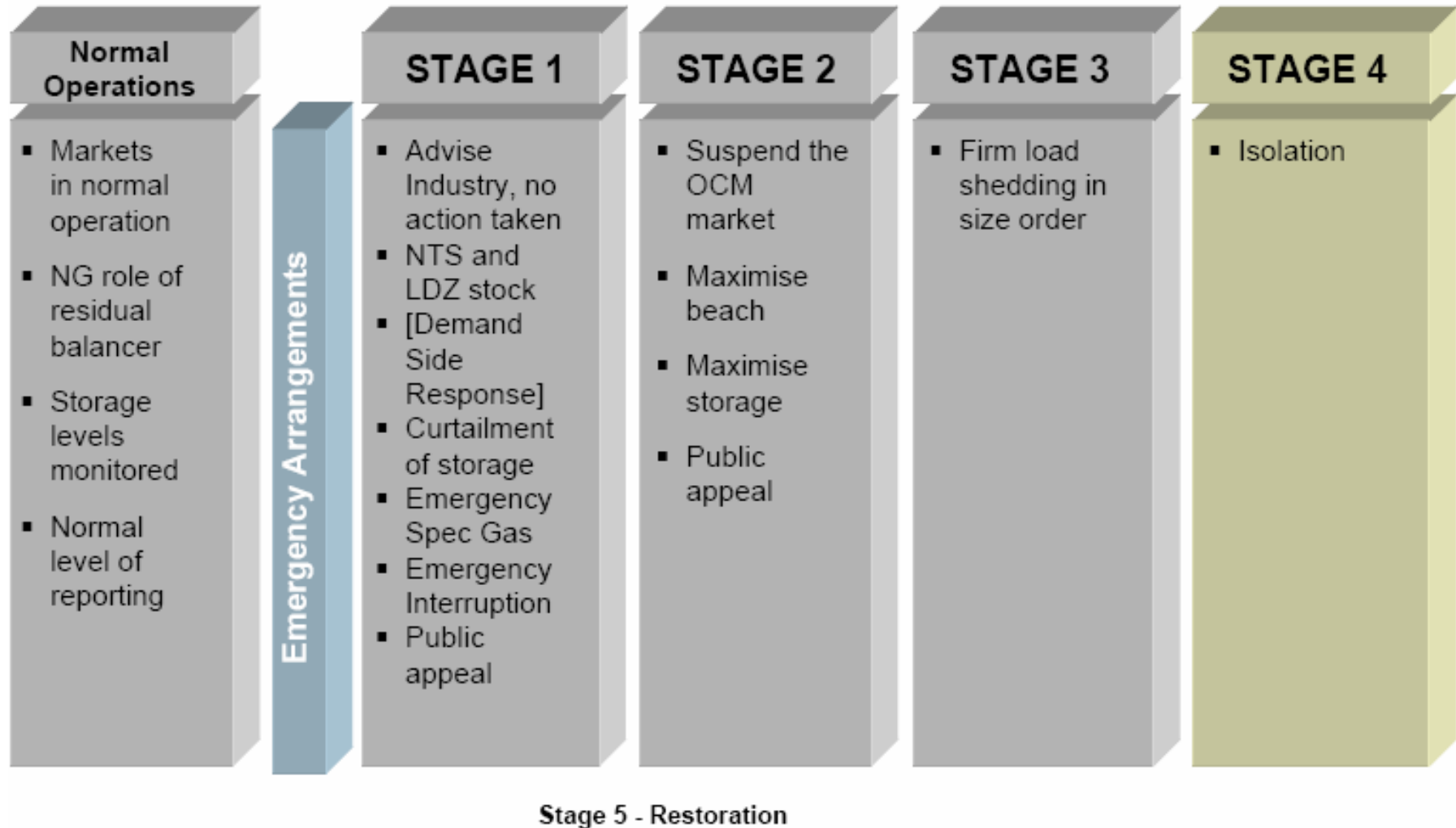
Critical Transportation Constraint

- 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) would not be suspended
- Typically 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

Stages of Network Gas Supply Emergency



Exercise Prelude Participants

Gas National Control Centre (GNCC)

Distribution Network System Operators
Distribution Network Control Centre (DNCC)
Scotia Gas Network

Distribution Networks

Shippers

Supplementary Transporters

Storage Sites

Interconnector Operators

Exercise Prelude Stages

Day One A scenario will be provided to the GNCC regarding an incident on the National Transmission System (NTS)

Stage 1 Actions Declaration of a Network Gas Supply Emergency – Gas Deficit (Insufficient Supplies)

- ◆ GNCC to contact exporting systems
- ◆ Emergency interruption
 - ◆ GNCC and DNSO to contact interruptible VLDMC's
 - ◆ Shippers to contact their non – VLDMC's interruptible consumers

Stage 2 Actions

- ◆ APX notified of change in status of the OCM (if required)

Stage 3 Actions – Firm Load Shedding

- ◆ GNCC and DNSO to contact Firm VLDMC's

Exercise Prelude Stages

Day Two

If necessary, the NEC will declare a NGSE – Gas Deficit Breach of GS(M)R Monitor Emergency

Stage 3 Actions

- ◆ **Firm Load Shedding** of customers 25,000tpa to 50mtpa by DN's

Stage 4 Actions

- ◆ Isolation

Stage 5 Actions

- ◆ Restoration

Firm Load Shedding (Stage 3 Day 2)

Firm Load Shedding Exercise to establish

- ◆ If end users can be contacted using emergency contact information provided
- ◆ If end users can stop using gas once contacted
- ◆ Timescales for the load shedding
- ◆ Processes to physically isolate if required are in place

FLS taking place at Hinckley and Northampton

- ◆ Latest information provided by shippers via Sites and Meters
- ◆ Minimum 200 sites to be contacted per LDZ

Process improvements from previous exercises

- ◆ Challenge procedure put in place
- ◆ Top 50 sites – contact details prioritised
- ◆ Multiple contact phone number issue resolved

Previous Performance

Contact Type	Krakatoa 2003		Moscow 2005		Neptune 2006		Opus 2007	
	No.	%	No.	%	No.	%	No.	%
Successful (could turn off)	1780	47%	582	36%	1112	43%	1651	47%
Could not turn off	705	19%	515	32%	612	24%	657	19%
Total sites where contact made	2485	65%	1097	68%	1724	66%	2308	65%
Contact details incorrect	1318	35%	512	32%	878	34%	1223	35%
Total attempted contacts	3803		1609		2602		3531	

Post Exercise

All observers to provide report to GNCC Emergency Planning Team

DN's to collate and send to GNCC Firm Load Shedding data

The NEC will produce a report on the exercise for the HSE and the Gas Industry

- ◆ Containing views of all parties
- ◆ Recommendations from HSE and NEC of any necessary improvements to the process
- ◆ Overall firm load shedding performance

Individual shipper results are provided via Account Management

- ◆ Correct/updated contact information fed back where applicable
- ◆ Feedback on any relevant issues encountered during exercise

Questions ? ? ?