

Exercise Moscow Review

Gas Customer Forum 21st April 2006

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Planning

national grid
nationalgrid

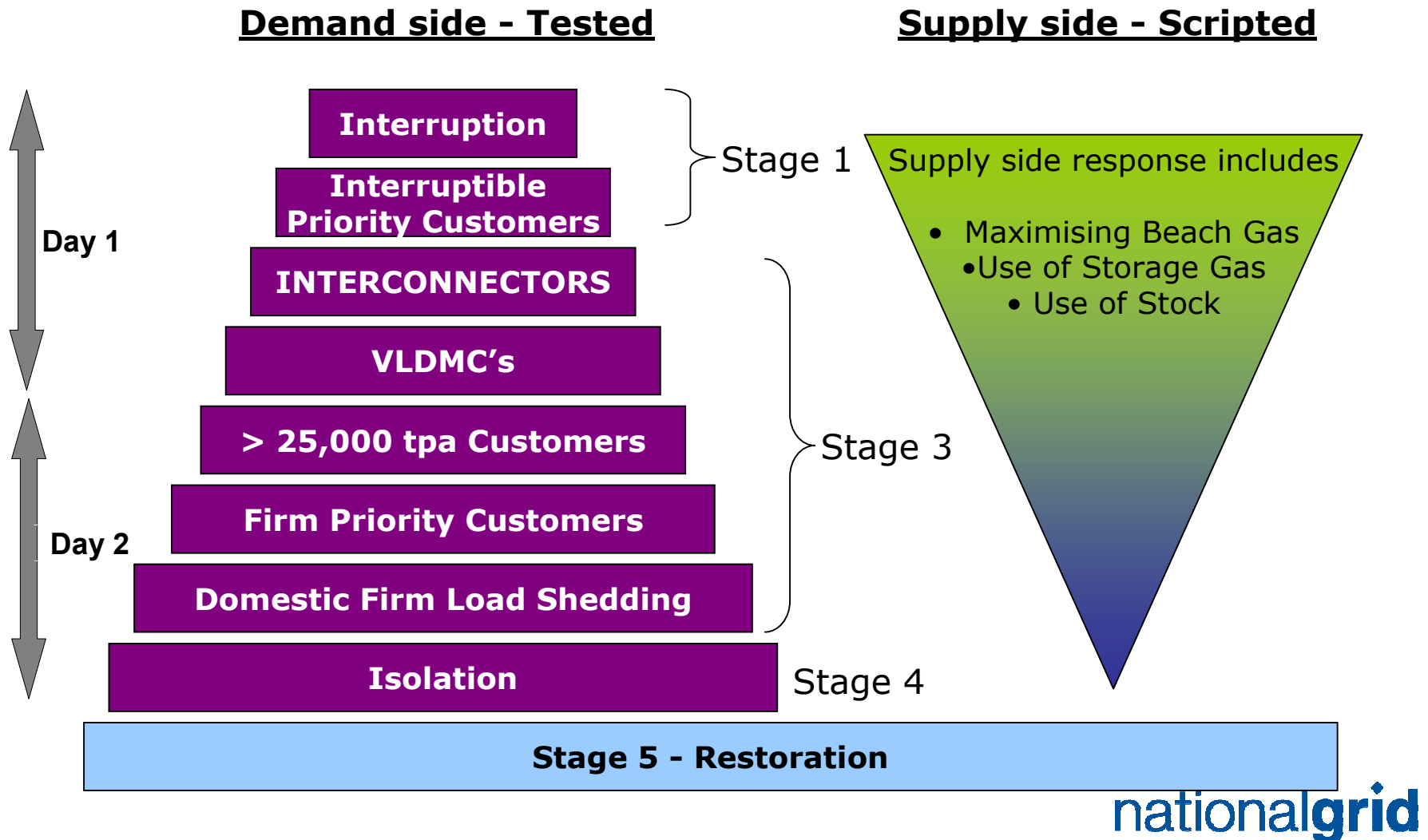
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Exercise Moscow

- Exercise Moscow took place on 27th/28th September 2005
- The Network Emergency Coordinator (NEC) exercise to test industry procedures to manage a Network Gas Supply Emergency (NGSE)
- The exercise tested industry's downstream response and involved GNCC, DNCC, shippers, VLDMCs and large consumers
- Full exercise report prepared for the HSE

Exercise Moscow Structure



Stage 1 – Emergency Interruption

NTS VLDMCs		LDZ VLDMCs	
Time to contact all sites	45 minutes	Time to contact all sites	25 minutes
Number of VLDMCs	22	Number of VLDMCs	9
Interrupt within 1 hour	75%	Interrupt within 1 hour	100%
Interrupt in 1-2 hours	5%	Interrupt in 1-2 hours	0%
Interrupt in 3-4 hours	20%	Interrupt in 3-4 hours	0%

Shipper Performance	No. of Shippers
No response or updates	6
Independent exercise	1
Portfolio contacted in < 90	4
> 3 hours to contact all portfolio*	6

* Contact performance was independent of portfolio size

- New contact database for VLDMCs implemented
- Shippers have identified options to improve contact performance
- Procedures introduced to increase feedback of information to NEMT

Stage 3 – Firm load shedding

NTS VLDMCs		LDZ VLDMCs	
Time to contact all sites	55 minutes	Time to contact all sites	25 minutes
Number of VLDMCs	38	Number of VLDMCs	10
Isolate within 1 hour	84%	Isolate within 1 hour	100%
Isolate in 1-2 hours	8%	Isolate in 1-2 hours	0%
Isolate in 3-4 hours	8%	Isolate in 3-4 hours	0%

- New contact database for VLDMCs implemented

Firm load shedding of >25,000 tpa

- ◆ Each LZD asked to contact their top 200 sites
- ◆ New contact proforma developed by the firm load shedding working group
- ◆ More detailed information gathered so calls took longer and some data errors in information recorded
- ◆ Technical problems at some Networks resulted in reduced sample size
- ◆ Comments fed back to GATG for further development

Firm load shedding of >25,000 tpa

Contact Type	Krakatoa 2003		Load shed 2004		Moscow 2005	
	No.	%	No.	%	No.	%
Successful (could turn off)	1780	47	1214	31	582	36
Could not turn off	705	18	606	16	516	32
Total sites were contact was made	2485	65	1820	47	1098	68
Contact details incorrect	1318	35	2063	53	511	32
Total attempted contacts	3803		3883		1609	

- Ongoing discussions with HSE and industry, via GATG, to address performance
- Consumer awareness needs to be improved
- Little feedback on performance received by NEMT, new procedures introduced

Stages 4 & 5

- ◆ Isolation plans tested
- ◆ Restoration resource requirements discussed

- Moscow raised a query regarding isolation delivery times
- GNCC, DNCC and the Networks will be working to resolve the issue

Conclusions

- ♦ Exercise Moscow successfully tested emergency arrangements in a complex industry setting
- ♦ Improvements to processes and systems are being implemented and best practice is being driven through GATG
- ♦ The load shedding element of the exercise has shown some improvement over future exercises in site contacts but further work is required and consumer understanding remains an area of concern
- ♦ Thank you to everyone who supported the exercise

Exercise Neptune 2006

- ◆ Neptune will test upstream and downstream emergency response and the ability to deliver: -
 - ◆ Emergency interruption
 - ◆ Emergency spec gas
 - ◆ Maximisation of supplies
 - ◆ Storage maximisation processes*
 - ◆ Secondary system to load management
 - ◆ Firm load shedding of specified SHQ of load
 - ◆ Effectiveness and timeliness of isolation

* Not tested in Moscow or Echo (DTi exercise in 2005)

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