Background Notes

- 1. Please see also material presented at UNC Distribution Workgroup on 26 March 2020
- 2. The list of impacts provides a simplified view not all sites within a customer group will:
 - Follow a consistent pattern (e.g. not all Domestic sites will see an increase)
 - Exhibit changed behaviours at exactly the same times
 - Return to pre-lockdown levels at the same time
 - Return to pre-lockdown levels in the short/medium term
- 3. Rolling AQs will only react slowly and only if meter readings are received and pass tolerance checks
- 4. The list of options is not necessarily comprehensive
- 5. None of the options listed has been costed or had a systems impact assessment



		IMPACTS DU		OOWN			
		Class 1/2	Class 3/4				
	Usage Increases During Lockdown	Usage Decreases During Lockdown	Notes	Usage Increases During Lockdown	Usage Decreases During Lockdown	Notes	
Nominations	Unaffected	Unaffected	Assumes usage information still available	Understated	Overstated	Opposite effect on UIG	
Allocations	Unaffected	Unaffected	Assumes daily reads still flow	Understated	Overstated	Opposite effect on UIG	
Meter reading submission	Read rejections are possible if usage increases sharply	No impacts	The larger the AQ, the tighter the read tolerances	Read rejections are possible if usage increases very sharply	No impacts	The larger the AQ, the tighter the read tolerances	
Read Estimation	Unaffected	Unaffected	Assumes this is a new read issue, not ongoing	Understated if lockdown days are included in the period	Overstated if lockdown days are included in the period	AQ change will only go part way to correct this	
Reconciliation	Unaffected	Unaffected		Corrects allocation and UIG	Corrects allocation and UIG		
Rolling AQ	Increases in monthly steps	Decreases in monthly steps		Increases in small monthly steps	Decreases in small monthly steps	Depends on meter read frequency	
Formula Year AQ	N/A	N/A		Increases for 2021 if reads have been accepted	Decreases for 2021 if reads have been accepted	Depends on scale and duration of demand change	
Capacity Charge rates	Unit price decreases as AQ rises	Unit price increases as AQ drops – step change at 732,000 kWh		No impact	No impact	Cl 3/4 uses Formula Year AQ	

		IMPACTS	AFTER LO	CKDOWN ENDS				
		Class 1/2		Class 3/4				
	Usage Increased <u>During</u> Lockdown (now back down)	Usage Decreased <u>During</u> Lockdown (now increased again)	Notes	Usage Increased <u>During</u> Lockdown (now back down)	Usage Decreased <u>During</u> Lockdown (now increased again)	Notes		
Nominations	Unaffected	Unaffected		Overstated (assuming that the AQ had been affected)	Understated (assuming that the AQ had been affected)	Opposite effect on UIG		
Allocations	Unaffected	Unaffected		Overstated (assuming that the AQ had been affected)	Understated (assuming that the AQ had been affected)	Opposite effect on UIG		
Meter reading submission	No impacts	Read rejections are possible if AQ has dropped significantly	The larger the AQ, the tighter the read tolerances	No impacts	Read rejections are possible if usage increases very sharply	The larger the AQ, the tighter the read tolerances		
Read Estimation	Unaffected	Unaffected	Assumes this is a new read issue, not ongoing	Understated if lockdown days are included in the period	Overstated if lockdown days are included in the period	AQ change will only go part way to correct this		
Reconciliation	Unaffected	Unaffected		Corrects allocation and UIG	Corrects allocation and UIG			
Rolling AQ	Returns to normal in monthly steps (c. 12m)	Returns to normal in monthly steps (c. 12m)		Returns to normal in monthly steps (9 to 36m)	Returns to normal in monthly steps (9 to 36m)	Depends on meter read activity		
Formula Year AQ	N/A	N/A		FYAQ for April 2021 could be overstated	FYAQ for April 2021 could be understated	Snapshot taken on 1 Dec each yr		
Capacity Charge rates	Unit price returns to normal as AQ drops	Unit price falls again when (if) AQ rises above 732,000 kWh		No impact	No impact	Uses Formula Year AQ		



POSSIBLE MEASURES	Class 1/2 Impacts to be addressed			C				
	Read rejections (due to increased usage during lockdown)	Step change in Capacity Charge Rates when AQ drops	Read rejections (due to usage increasing after lockdown)	Inaccurate Nominations & Allocations (during lockdown)	Inaccurate Nominations & Allocations (after lockdown)	Read rejections (increased usage – during/ after lockdown)	Over/Under- stated NDM Read Estimation	Notes
"Fix" the Class 1 and 2 AQs until back to normal	Х			N/A	N/A	N/A	N/A	
Shippers submit AQ Corrections where required		(if AQ remains above 732,000 kWh)	(need to correct again after lockdown)		(need to correct again after lockdown)	(need to correct at least twice – once for lockdown, once after)	again after	Impact on Formula Year AQ and Network Revenue (and possibly prices)
Set a "Fault Flag" on affected meters (to prevent AQ changes)	X Prevents all reads from being used for allocation – AND could cause UIG volatility due to lack of actuals		(once the fault flag is removed)	X Meter reads are still used in reconciliation and AQ	X Meter reads are still used in reconciliation and AQ	X Meter reads are still used in reconciliation and AQ	X Meter reads are still used in reconciliation and AQ	
Set an AQ "Backstop Date" on selected sites (prevents AQ calc back past date X)	Х			X		? Only works for sites which follow the majority trend at the same time	Х	Would use Lockdown period in AQ calcs after 9 months, unless new Backstop applied



POSSIBLE MEASURES	Class 1/2 Impacts to be addressed			С	ed			
	Read rejections (due to increased usage during lockdown)	Step change in Capacity Charge Rates when AQ drops	Read rejections (due to usage increasing after lockdown)	Inaccurate Nominations & Allocations (during lockdown)	Inaccurate Nominations & Allocations (after Iockdown)	Read rejections (increased usage – during/ after lockdown)	Over/Under- stated NDM Read Estimation	Notes
Submit monthly "zero progression" meter reading (if no actuals available)	N/A	X	X	X But ensures that a monthly "reconciliation to zero" occurs	X First "actual" reading will account for any pre- lockdown energy	X	In part – reduces period of incorrect estimation	AQ calculation would use these meter readings
Amend the NDM Profiles (e.g. ALPs/ DAFs)	N/A	N/A	N/A	? Only works for sites which follow the majority trend at the same time	? Only works for sites which follow the majority trend at the same time	X	? Only works for sites which follow the majority trend at the same time	Not enough information available to calculate accurate factors for future gas days
LONGER TERM	SOLUTIONS					-	_	
Introduce a Formula Year AQ for Class 2 sites	N/A		N/A	N/A	N/A	N/A	N/A	Charges would be static for a whole year, even if usage changed



POSSIBLE MEASURES	Class 1/2 Impacts to be addressed			C				
	Read rejections (due to increased usage during lockdown)	Step change in Capacity Charge Rates when AQ drops	Read rejections (due to usage increasing after lockdown)	Inaccurate Nominations & Allocations (during lockdown)	Inaccurate Nominations & Allocations (after lockdown)	Read rejections (increased usage – during/ after lockdown)	Over/Under- stated NDM Read Estimation	Notes
Introduce a standard transport- ation rate for Class 2 sites	N/A		N/A	N/A	N/A	N/A	N/A	
Allow DM SOQ reductions all year round	N/A		N/A	N/A	N/A	N/A	N/A	
Introduce a "Vacant" flag as in Electricity	N/A	N/A	N/A		Assumes that the AQ is not amended	X		Assumes that the Shipper is aware of the shutdown, and removes the flag promptly after re-opening

