

STC Section K in Operational Timescales

Further Thoughts Following Experts Teleconference

Following the presentation of the paper by Transmission Capital at the 29th May STC Modification Panel, it was agreed to have a teleconference between a panel of nominated experts to try and progress the matter further.

Teleconference Notes

A teleconference was held on Thursday 20th June. The following people took part:

Mike Lee Transmission Capital (OFTO)

Milorad Dobrijevic SP TO

Anthony Johnson NGET (NETSO)

David Lyon Blue Transmission (OFTO)

Neil Sandison SSE TO

Following a description of the background to the issue, Anthony Johnson gave some background to the origins of Section K.

All parties were in agreement that there should be a mechanism to allow an OFTO system to continue to operate in a degraded condition, provided this was not detrimental to other Users.

NETSO is of the view, which is not shared by the TO community; is that in the absence of a specific STC mechanism, it would not be possible for an OFTO system to continue to operate in a degraded mode, as it is not in NETSO's gift to allow this. This would mean that in the absence of a derogation from Ofgem the system would have to be shut down (with the associated generation) until compliance is fully restored, even if there is no significant system impact of such operation. A post event derogation would be impractical, therefore it would be necessary for each OFTO to obtain a derogation prior to transfer from Ofgem to avoid this happening. It was noted by an OFTO member, that derogations should not be used to address generic issues, such issues should be resolved via the industry codes.

The onshore TO members both noted that the OFTO was required to make it system available to NETSO via the Services Capability Specification (SCS) in Section C of the STC, just as an onshore TO would. The same members also noted that the Operational Capability Limitation Record (OCLR) system was used on a daily basis by TO to record similar reductions in system capability and there was no reason why it could not be used in this case. It was suggested that an OFTO should wherever possible be treated the same as all TOs, to avoid OFTO specific obligations in the STC and to avoid unnecessary discrimination between different types of TOs.

The NETSO representative thought that a new process should be devised, which would be similar to the CP8 process in the Grid Code. It was suggested that could either be an amendment to STCP19-5, or an augmented process under STCP4-4. It was thought that the OCLR process was not rigorous enough in capturing long term ongoing compliance issues.

Tel: +44 (0)20 3668 6680



It was agreed that there were two possible solutions:

- 1. Use the existing OCLR process.
- 2. Form a working group to determine a new or revised process.

The options would be reported back to the STC Modification Panel.

Post Meeting Thoughts

To aid with this process, a table has been produced (Appendix 1) showing the different treatment of SVCs between the various parties that could potentially operate one. Whilst all provide the essentially the same electrical characteristics, the rationale for having them and treatment of them varies significantly.

An important point to note is that a generator currently operating a system incorporating an SVC, has via the Grid Code CP8 process, a mechanism to operate in a degraded mode and continue (in most cases) to generate. If that generator were to transition into an OFTO connection; currently that option would no longer be available as the issue would be dealt with under the STC, for which NETSO asserts there is no process to manage it. Under such a scenario, the losses to the generator could quite easily exceed £800k per day. This would appear to go against the principle that the OFTO process should not be detrimental to a connected generator and the duality between Grid Code and STC Section K.

Currently there are no operational OFTO systems incorporating SVCs. This is likely to change in the next few months with 2-3 systems possibly transferring before the end of the year. There is currently a great deal of nervousness within the OFTO community about these issues and there is a risk that it leads to delays in closure due to the uncertain impact on the OFTO's revenue. The generator community is not yet aware of these issues, but will no doubt have similar concerns, again threatening potential delays.

The timescales of a review group are at best 6 months to fully progress any modification. A 6 month delay will only lead to further uncertainty. It is suggested that a pragmatic solution would be to accept that in the short term that OCLR process is applicable to manage the issue, which as an affirmation of the status-quo requires no formal change governance. Whilst NETSO may have concerns about this, these can be allayed by immediately initiating a Working Group to design an enhanced process. As there are currently no OFTOs where this issue can arise, the timescale for resolution are similar to the timescales for appointing the first of the affected OFTOs. Hence the practical impact for NETSO is limited, but OFTO concerns are allayed as a process is in place.

Recommendation from TO Community

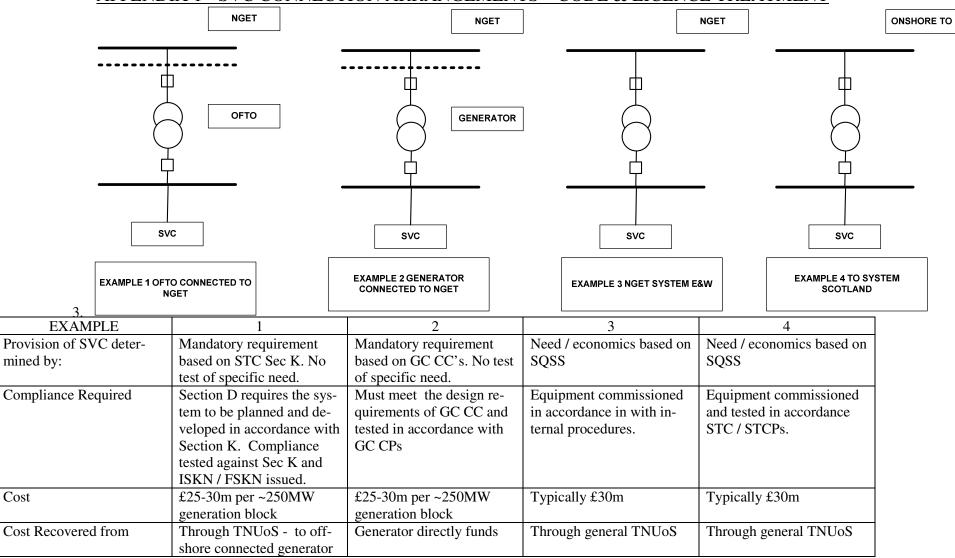
The STC Modification Panel is requested to note:

- 1. that in the opinion of the TO members that OCLR process in STCP 4-4 is applicable to manage the degraded performance of OFTO assets with respect to STC Section K for a time limited period.
- 2. the intention to form a Working Group, to consider the enduring process requirements for managing shortfalls in STC Section K capability in operational timescales.

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APPENDIX 1 - SVC CONNECTION ARRANGEMENTS - CODE & LICENCE TREATMENT



Sixth Floor, 135 Cannon Street, London, EC4N 5BP

Tel: +44 (0)20 3668 6680



Contractual requirement to	Through STC Section C	Through connection	None other than general	Through STC Section C
make available	and Services Capability	agreement	licence obligations	and Services Capability
	Specification			Specification
Mechanism to deal with	NETSO's current view is	Through GC CO8	Internal procedures	Through OCLR process in
outages / limitations	No, but shouldn't treat-			STCP4-4
	ment be same as onshore			
	TO?			
Commercial implications	£10k/hr OFTO & £40k/hr	None initially assuming no	None – but possible in-	No immediate impact. Pos-
of outage	generator if no mechanism	adverse system implica-	creased constraint costs on	sible increased constraint
	to deal with outages. Even	tions	NETSO.	costs on NETSO.
	for a minor fault total			
	losses could exceed £2-			
	3m.			
Technical Implications	Loss of reactive capability,	Loss of reactive capability,	Other system actions are	Other system actions are
	but unlikely to be signifi-	but unlikely to be signifi-	generally available.	generally available.
	cant system impact if reac-	cant system impact if reac-		
	tive power balance is neu-	tive power balance is neu-		
	tral with SVC OOS.	tral.		
Redundancy	Systems are not redundant.	Systems are not redundant.	SQSS drives whole system	SQSS drives whole system
	Economics, land take etc	Economics, land take etc	redundancy.	redundancy.
	prohibitive against provid-	prohibitive against provid-		
	ing additional capacity.	ing additional capacity.		
	General system over-	General system over-		
	provision of reactive	provision of reactive		
	power.	power.		A VERTICAL OF
Visibility to NETSO	NETSO configures system	May be hidden in genera-	Full visibility	NETSO configures system
	through STC Sec C, has	tor system.		through STC Sec C, has
	indications and hence high			indications and hence high
	visibility.	XX 1 11'	W. 1. 1. ANGERTO.	visibility.
Strength of Licencing Re-	Very High. Licence obli-	Weaker as obligations to	High, but NGET TO does	Very High. Licence obliga
gime	gations to comply with	comply with codes are	not have to comply with	tions to comply with STC.
	STC. Revenue comes via	contractual.	STC. Revenue comes via	Revenue comes via li-
	licence.		licence.	cence.

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