

## JOINT PLANNING COMMITTEE

### Minutes

Tuesday 6<sup>th</sup> October 2015  
SSE, Newbridge

#### Attendees:

Julian Leslie	NGET	Nick Harvey ☎	NGET
Hannah Kirk-Wilson	NGET	James Whiteford ☎	NGET
Diyar Kadar	SPT	Manjinder Dhesi (in part) ☎	NGET
Brian Punton	SHET	Jeff Regha (in part) ☎	NGET
David Adams	SPT	Xiaoyao Zhou (in part) ☎	NGET
Keith Dan ☎	NGET		

#### Apologies:

Craig McTaggart	Vivien Hobbs
Andy Huthwaite	Amanda May

### 1. Introductions

- 1.1. Round table introductions. JL also provided an update on the new SO entity structure and the value streams which will interface with the TOs, this is Network Electricity capability (headed by Richard Smith) and deliver energy (headed by Cathy McClay) Duncan Burt heads up control. Phil Sheppard is Director of Operations, covering the day to day operation of the Network. Network Capability Electricity covers up to 5pm the day ahead and then transfer to deliver energy.
- 1.2. This may result in some changes to better align skills and capabilities with deliverables.
- 1.3. **100615-01 Action: Share latest organograms of the SO entity to JPC parties (JL)**

### 2. Safety Moment

- 2.1. Update of crash course safe driving course which National Grid is delivering to all employees. Hard hitting messages of the impacts of using mobile phones whilst driving and the level of distraction they provide. National Grid's policy is now to ban using mobile phones whilst driving. SSE also have an initiative on driving.

### 3. Sign off minutes from last meeting

- 3.1. Minutes were reviewed, accepted and signed off

### 4. Review actions from last meeting

- 4.1. Actions were reviewed. Completed, ongoing and new actions are identified on the attached Actions Register. The following follow-up / ongoing actions identified:
- 4.2. **1013-01 Action:** Concerns remain on the sensitivity of data required in order for OTSDUW parties to undertake their necessary studies for compliance. JL to consider options available. A suggestion was made as to whether NG passes data to Ofgem for them to pass on once have agreement with original owners, which is something which has happened in the past.

- 4.3. **0429-14 Action:** To be picked up at the next JPC IP meeting and then reported back at the next JPC in January.
- 4.4. **1125-04 Action:** Struggling to find a copy of the Boundary of Influence paper, KD to chase Stewart Whyte for the paper to circulate.
- 4.5. **0127-04 Action:** Rolled over – no update on NG PLD exchange – Interconnector NorthConnect/Blythe CION process.
- 4.6. **0127-06 Action:** NG PLD exchange process flow chart shared at the meeting. Comments requested from all parties by Friday 6<sup>th</sup> November 2015.
- 4.7. **042915-01 Action:** BP updated that Ofgem are in a minded to position that for any interconnector applying for a Cap and Floor a CION would be required. Therefore for North Connect it would be beneficial to start developing a CION. HKW to speak to CAMs to get CION for North Connect started.
- 4.8. **0429-02 Action:** Revised ToR written for JPC-OC group and circulated for comment. Will be raised at next JPC-IP meeting at the end of October.
- 4.9. **042915-04 Action:** Regarding wk24 DRC data XZ to look to send an update of record of changes to data. To follow up with XZ.
- 4.10. **042915-08 Action:** We are getting Office 365 rolled out across NG next year. This will provide the ability to share files on SharePoint with external parties. This will be hosted on NG servers and is the preferred solution. NGET is waiting on confirmation from SPT that this works for them. Action for all on agreement on SharePoint as appropriate method for file sharing by 9<sup>th</sup> Oct.
- 4.11. **042915-10 Action:** Expect to get something moving and circulated by March 2016. GSR016 is small embedded generation. This is now closed.
- 4.12. **042915-11 Action:** BP trying to get hold of Graham Stein. Want to know how NG would respond without getting into a working group. Scaling factors not necessarily a problem in other TO locations. For SHE Transmission scaling factors are an issue as not getting the results from CBA to invest when it is required. Therefore a review of scaling factors might be required, although this is a lot of work. Mismatch between deterministic and CBA approach with the change in generation background. BP to contact Graham Stein and update next JPC as to way forward.
- 4.13. **042915-12 Action:** Interconnectors are being reviewed by an SQSS group, looking to be taken forward in the panel. This amalgamates some of work done by SW with future work on interconnectors. Gone to SQSS panel for review. Interconnectors included in studies and currently around 5 year horizon a deficiency is shown in generation if the market arrangements we currently have are not taken into account. The methodology for security criteria shows that there is an issue with security, although this is not necessarily the case. The role of I/C in security of supply needs to be defined. Where the assessment of boundaries for economy and security criteria show flows in different directions, further assessment is done on the security criteria. The NOA and SOF need to reflect concerns on security issues. This can be addressed through two possible SQSS mods – one in general and one specifically related to security. JL to speak to Graham Stein on update with GSR012 and expected timescales.
- 4.14. **042915-13 Action:** This concerned additional information provided to generators to help them with the offer application and in developing a commercial business case. NGET has produced a range of additional information which could be provided and this is with Ivo and Mike Oxenham to discuss as an approach with

the TOs ahead of going to Ofgem. Thinking about putting out an SO position statement of what to expect. HKW to follow up with Ivo for progress on this.

4.15. A further new action was also identified at this time:

4.16. **100615-02 Action:** Brian to provide an update at the next JPC on their interpretations of SQSS Chapter 2 and how it impacts investments.

## **5. Report back from subgroups**

### **5.1. Project co-ordination – HKW**

5.1.1. HKW reported that there were no issues with meetings occurring on a regular basis and are proceeding successfully.

### **5.2. Operational Assessment – JW**

5.2.1. Last meeting 4<sup>th</sup> September.

5.2.2. During the meeting had a good discussion on the PLD process. We have now had a large number come through. The importance of getting the right information was discussed as this enables us to be able to model the scheme and assess requested outages.

5.2.3. There is disparity on information which is on the PLD and on the stage by stage. The PLD describes the completed project and not the intermediate stages which are required for each winter for modelling purposes. This is required particularly for large schemes in order to facilitate outages. There is also discrepancy between the final diagram in the stage by stage and the PLD.

5.2.4. **100615-03 Action:** BP requested details of actual projects where this was the case.

5.2.5. It was mentioned that this information is included in the SCA (System Construction Authorisation) documents; however it is difficult to extract the relevant information from these documents. Discussed how to make simpler but as yet no conclusion to these discussions.

### **5.3. Offshore co-ordination – HKW**

5.3.1. The minutes from the last meeting are included. The group took an action to provide a note on commercial framework challenges. IOTP report covers some of this so need to ensure that there is no duplication.

5.3.2. HKW also provided an update on the CION process review, which will be going through Performance Excellence from mid-November. We will also be updating the CION guidance note at the end of October to meet licence conditions from ITPR.

5.3.3. **100615-04 Action:** JL to speak with Ofgem to see if can share IOTP report.

### **5.4. ETYS**

5.4.1. There is an issue between NGET and SPT on the treatment of the Western link HVDC project, where different interpretations on the treatment of a trip event can have a significant impact on the capability of the B6 boundary. The application of Chapter 4 – Planning Standard (n-1-1) and Chapter 5 – Operational Standard (n-d) give different capabilities. The SWW licence obligations are to provide 6.6 GW of capability on the B6 boundary. We need to agree on the treatment of HVDC links so we can be consistent in our messaging. It needs to be determined whether HVDC is a single circuit or whether it can be treated as a double circuit fault. What is probability of failure

single or double circuit? A single fault would shut the link down but reinforcing would not be economic. There is no operational n-1-1 standard, which leads to this discrepancy. A CBA needs to recognise that the operational standards are in force.

5.4.2. **100605-05 Action:** NH to lead on agreeing approach to HVDC.

5.4.3. DA confirmed that numbers in ETYS will be in line with Chapter 5 interpretation of SQSS.

5.4.4. Chapter 4 will not be in ETYS agreement given by Ofgem. NDP output will be included as part of the NOA.

5.4.5. ETYS is evolving to be an SO document so will see further changes going forward.

## 5.5. Investment planning

5.5.1. Next meeting scheduled for 28<sup>th</sup> October.

## 5.6. Modelling

5.6.1. Had a meeting in July. Main discussion was around ETYS and the process for it. Some changes implemented to make the process easier and to merge models better. There are still some issues on converging models, which will be reviewed after the conclusion of this year's ETYS.

5.6.2. ITPR – Information on PLDs and diagrams on future developments are required in order to develop SHE Transmission models. We require more information in order to be able to build models which are detailed enough to do studies.

5.6.3. ENTSO-E model submission – All three parties worked closely together and all submitted the models on time.

5.6.4. Next meeting this week (w/c 5<sup>th</sup> October).

## 6. Review of subgroups ToRs

6.1. Discussion on whether to have the NOA as part of ETYS subgroup or as a separate subgroup. Decision is a separate group for NOA as the process is different from ETYS.

6.2. **100615-06 Action:** NH to draft terms of reference for a NOA subgroup.

6.3. ETYS ToR were reviewed, accepted and signed off.

6.4. Modelling ToR reviewed and to be circulated for agreement by circulation.

6.5. **100615-07 Action:** HKW to circulate ToR for modelling to representatives and for JPC representatives to sign off by circulation.

6.6. Operational assessment – wrong ToR included. To be checked internally and up to date version sent.

6.7. **100615-08 Action:** JW to circulate ToR for review and agree by circulation.

6.8. Queries as to whether these were the latest ToR for the subgroups. BP/DA felt these had already been signed off some time ago.

6.9. **100615-09 Action:** All to check that these are the most up to date ToR and if there are any that have been agreed.

## **7. Embedded Generation update – KD**

- 7.1. Short update circulated to members ahead of meeting.
- 7.2. 7.7GW will have connected by the end of the year from April 2015. We have supported workshops with Ofgem on embedded generation, which covered how you might plan and operate the network technically and a similar workshop with frameworks and commercial. Ofgem have taken away some short term actions. Also some other no cost actions have been identified from better sharing of information between the SO and DNOs.
- 7.3. Import embargo on solar panels removed as of the start of 2016. Expect then solar to increase again after removal of subsidies as it reaches price parity.
- 7.4. Storage next big thing. This raises questions around how to treat it, demand, generation, etc., how to treat combined solar and storage projects. What other benefits can these types of projects can bring. We need to be on front foot to ensure that it can deliver benefits to the transmission network. NG has put out a tender for fast frequency response from batteries, see what tender round brings.
- 7.5. DNOs are getting to grips with the data they have and it should be up to date (95%) on the levels of embedded generation. This should make planning of networks easier.
- 7.6. DA is also interested in ability to undertake this kind of analysis. Worth raising at the modelling sub group and XZ being kept informed of the work. KD to be back in touch when there is further progress.

## **8. Update on proposals for strategic wider works**

### **8.1. NGET - JR**

- 8.1.1. Hinckley – Ofgem are reviewing their decision on the need case. We expect to hear by end of the year. Ofgem also enquiring of EDF for FID to ensure that the project is going ahead.
- 8.1.2. Northwest Coast Connection – 2024, 2025 and 2026. The need case is to be submitted to Ofgem next month or before the end of the year for consideration.
- 8.1.3. **100615-10 Action:** JR to send PLD to SPT for the project for Moorside. NH to support.
- 8.1.4. East coast – This is on hold. It will be triggered by NDP if further development is required.

### **8.2. SPT – DK**

- 8.2.1. Dumfries and Galloway – Getting to the CBA phase. Have been in discussion with economics team on capabilities and background generation. Aim to do CBA in the next 3 months and to include in the NOA. It is still the intention to submit SWW need case to Ofgem by the end of this year or early next year. Lining up with Ofgem view of what is required for the initial need case and final need case submissions. This would be in line with early need case submission.

### **8.3. SHE Transmission – BP**

- 8.3.1. Beauty Denny will be completed this year, due to complete in November 2015.
- 8.3.2. Reconditioning of Beauly – Blackhillock – Kintore due for completion at end of this month (October).
- 8.3.3. Beauly – Mossford OHL – due for completion November 2015.

- 8.3.4. Kintyre Hunterston – works proceeding to program, all OHL is complete, commissioning due for end of this month and into November 2015.
- 8.3.5. Caithness Moray – progressing on schedule, completion due 2018. Towards end of design exercise. Converter component procurement underway, subsea cable design underway. AC works underway.
- 8.3.6. Islands – Need case submissions are under consideration. Questions on affordability for the renewable developers. Waiting on further information before submission of the need case to Ofgem.
- 8.3.7. East coast – reviewing when the best time to revisit this with NGET is.
- 8.3.8. Orkney – reviewing works required. Need is still developing and shifting from one side of the island to the other. Under options assessment. Marine backed off significantly but still a lot of onshore wind.

## **9. Joint projects**

### **9.1. SPT**

- 9.1.1. Beaulieu – Denny: On programme for November.
- 9.1.2. Kintyre – Hunterston likely to be completed in November.
- 9.1.3. Series compensation continuing. Of 4 SPT capacitors, one has been commissioned, one is under commissioning. Gretna outage due for later this year and the further outage required is under discussion.
- 9.1.4. Western link – remains on programme for completion in spring summer 2017.

### **9.2. SHE Transmission**

- 9.2.1. Nothing further to SWW.

### **9.3. NGET**

- 9.3.1. Nothing to update.

## **10. Reports from other working groups**

### **10.1. ENSG – JL**

- 10.2. There is a big focus on embedded generation, getting everyone to understand issues as we see them and to discuss them. We are working with ENA on Statement of Works review.
- 10.3. Other update on FES – people wanted a view on what is most likely, that is not what FES is about. All scenarios are equally likely.
- 10.4. Next meeting is in December.

### **10.5. SQSS – DK**

- 10.6. The next meeting is tomorrow. Update will be provided at the next JPC. Limited progress on modifications. GSR on 220 kV due to go out to consultation and should be concluded reasonably quickly.

### **10.7. STC – JL**

- 10.8. Ofgem has put in NGET licence condition of next August when STC and STCP changes need to be implemented. KD has done a high level assessment of the impact on STC and STCPs of ITPR which is to be reviewed at the next STC panel (October) and then be progressed. A full review of STC and STCPs should be

done for impacted areas, not just to reflect ITPR changes. After immediate ITPR priorities addressed we are then looking to implement a rolling 2 year review of the processes to ensure they remain up to date. A working plan will be prepared after the October STC.

### **10.9.ENTSO-E – NH**

10.10. There is a lot of work going on for submissions for TYNDP 2016. A fair amount of feedback has been received which is being reviewed and also ensuring that all proposed schemes within TYNDP are fully assessed. Ensuring all relevant information is included.

### **11. AOB**

11.1. Grid code DRC schedule of what can and can't be shared. Generator charts not flagged as being able to be passed to TOs. These are required for analysis and to ensure that generator capabilities are accurately reflected in order to manage high volts. Looking to trigger a review of grid code to change this. Also impacts black start and capability for generators to support.

11.2. **100615-11 Action:** DA to raise relevant grid code modification.

11.3. Common application of volts. There has been a proposal from NGET to change the voltage unbalance figure, currently set in the Grid Code to 1% for E&W and 2% for Scotland to 1.5% GB wide. For NGET moving from 1% to 1.5% is a relaxation but for Scotland moving from 2% – 1.5% is a tightening of requirements. The impacts of this have not been assessed and it could potentially trigger reinforcement works.

11.4. Treatment of Caithness Moray HVDC and how it is treated. View that it is compliant with Chapters 2 and 4, but to ensure consistency would like to have a discussion. This links with previous action 100615-04.

### **12. Dates of next meeting**

12.1. 26th January 2016 – Scotland, Blantyre (Glasgow) 10am start.

12.2. April 2016 – Warwick

12.3. July 2016 – Newbridge

## 1.1. List of Actions

### Ongoing

Actions Ref	Action	Action by	Action Due	Status
1013-01	Concern raised with respect to the arrangements in place for OFTOs to ensure confidentiality of information. Concerns remain on the sensitivity of data required in order for OTSDUW parties to undertake their necessary studies for compliance.	JL	Update at next meeting	This was raised at the STC and proposed to cancel, however it is still felt this is an issue. JL to consider options available. A suggestion was made as to whether NG passes data to Ofgem for them to pass on once have agreement with original owners, which is something which has happened in the past.
0429-14	<p>Circulate round a file note on Security of Supply - progress so far and key findings.</p> <p>Pass to JPC-IP to propose a way forward and report back to the JPC</p> <p>To be raised at next JCP-IP meeting.</p>	NH	Update at next meeting	<p>In Circulation</p> <p>What is the probability of being in the region of (3.8-4.5) - what can we do about or do to improve transfers? With no generation in Scotland there are issues (depending on how extreme the assumptions are). Security to Scotland - are we comfortable 3.8 is a big enough number for Winter going forward? Do we want RP and the team to look at what we need to do to improve the load sharing?</p> <p>What is the probability that transfers would exceed 3.8 in the Winter period?</p> <p>Next JPC-IP meeting due 28<sup>th</sup> October 2015.</p>
1125-04	Bol Paper to be circulated Jan JPC	KD	by next meeting	KD struggling to find a copy – ongoing search and will be circulate in due course
0127-04	NG PLDs exchange - Interconnector NorthConnect/Blythe CION Process.	KD speak to Cheng	By Next Meeting	Rolled over. Chase Cheng Chen for update ahead of next JPC.



		Chen		
0127-06	Extend PLD Process to larger TO.	All	By 6 <sup>th</sup> November 2015.	Review the flow chart circulated for the October JPC meeting and feedback comments to Vivien Hobbs.
042915-01	Does NorthConnect require a retrospective CION or mini CBA? Review connection arrangements for NorthConnect – confirm whether we need any additional optioneering or process of assessment. Maybe we need to think in the context of Cap and Floor and if that means we need to do any further work.	HKW	By Next Meeting	BP updated that Ofgem are in a minded to position that for any interconnector applying for a Cap and Floor a CION would be required. Therefore for North Connect it would be beneficial to start developing a CION. HKW to speak to CAMs to get CION for North Connect started.
0429-02	BS to liaise with Nick Harvey for IP Subgroup and revise ToR for Offshore Coordination sub-group to include Interconnectors and provide to JPC for review.	HKW	By Next Meeting	Revised ToR written and awaiting comments from sub group. To be raised at next JPC-IP.
042915-04	Regarding Wk24 DRC Data. XZ to speak to Nina to send an update of the records.	XZ	By Next Meeting	The 2015 wk24 update will be done in JPC modelling subgroup meeting on 30 <sup>th</sup> of July. Update required from XZ.
042915-08	Regarding Data Exchange. KD to investigate a secure FTP site (Glyn Williams).	All	9 <sup>th</sup> October	Getting office 365 rolled out and the aim is to use SharePoint hosted on NG servers to exchange data. All to confirm this as an appropriate method of file sharing.
042915-11	GSR16 Concerns. ALL - Go back to reps to highlight concerns regarding impacts of SQSS	BP	By Next Meeting	BP to speak with Graham Stein as to a way forward with regard to scaling factors and embedded generation.
042915-12	SQSS Treatment of Interconnectors. Progress on SQSS mod appears to have stalled.	JL	By Next Meeting	JL to speak to Graham Stein on update with GSR012 and expected timescales.
042915-13	Provision of Data to Generators. KD to seek guidance – suggest creating a forum which includes legal representation, led by Commercial? Can we agree a list of data which we can or cannot exchange. Ivo Spreeuwenberg to lead? Seek representation from SHET & SPT.	HKW / Ivo	By Next Meeting	NGET has produced a list of information which could be provided. This is sat with Ivo and Mike Oxenham to discuss an approach with TOs. Also considering a position statement. HKW to chase Ivo and Mike for update.

**New**

100615-01	NGET SO has had a reorganisation. Share latest organograms of the SO entity with JPC parties.	JL	By next meeting	
100615-02	Brian Punton to provide an update at the next JPC on their interpretations of SQSS Chapter 2 and how it impacts investments.	BP	Next Meeting	
100615-03	BP requested details of actual projects where there are discrepancies between the PLD and stage by stage diagram.	JW	By next meeting	
100615-04	JL to speak with Ofgem with regard to sharing of IOTP report and if it is possible.	JL	By next meeting	
100615-05	NH to lead on agreeing approach to HVDC treatment for planning.	NH	By next meeting	
100615-06	NH to draft terms of reference for a NOA subgroup.	NH	By next meeting	
100615-07	HKW to circulate ToR for modelling subgroup to representatives and for JPC representatives to sign off by circulation.	HKW	By next meeting	
100615-08	JW to circulate ToR for JPC-OA for review and agreement by circulation.	JW	By next meeting	
100615-09	All to check that the ToR circulated to the JPC are the latest and most up to date and if there are any that have been agreed.	All	By next meeting	
100615-10	JR to send PLD to SPT for the NCC project for Moorside. NH to support.	JR / NH	By next meeting	
100615-11	DA to raise a relevant grid code modification relating to the Grid code DRC schedule of what data can be shared which currently restricts TOs from having generator charts. This additional information is	DA	By next meeting	

	required to enable the TOs to accurately model their networks.			
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### Completed

1013-02	remove 'might be because' from last sentence of Impacts	KL/SN		
1013-03	Make a view on whether the OA subgroup should cover all years apart from current year or not.  <b>Decision made.</b>	KL/SN		
1013-04	KL to liaise with GW and SM to decide if STCP 11.1 and STCP 16.1 are better kept separate or not.	KL/SN		
1013-05	NGET to clarify what outage information in PLDs are used for and what data are required to be included in a PLD to facilitate the job of outage planners.  <b>Outages include reference to PLDs</b>	SN		
1013-06	NGET to clarify if any additional information are required by the Modelling Subgroup	XZ		
1013-07	NGET confirm that no application had been received, but we had been requested to undertake a joint study to determine optimum landing point. <b>Recommend JPC to sign off ToR and study results and ensure joint planning.</b>	AH		
1013-08	NGET to provide information on Dynamic Line Ratings  <b>ETYS includes DLR. New actions see below.</b>	AH		
1013-09	NGET to provide any requirements on the ANM scheme urgently. <i>BA to write a note to the JPC on lessons learnt and recommendations for future</i>	SO	June '14	The SO continues to support the introduction of ANM schemes and is proposing the introduction of an STCP to define the process

	<i>schemes and includes background info. <b>Action reassigned to Sade Onajobi</b></i>			of their design and management. Should a working group be convened it is hoped that an STCP could be issued early in 2015.
1013-10	NGET to clarify the main application of the wider system ANM scheme. <b>KD to report back with priorities and agree a timetable</b>	KD	June '14	<p>It is anticipated that ANM schemes will interface with the SO's future Energy Balancing System (EBS) due in service in early 2015, which will perform a security constrained despatch of generation in the Balancing Market but also could perform an Automatic Generation Control (AGC) function. The rules used to constrain generation would need to be carefully considered depending upon their status e.g. small distribution connected, BELLA, BEGA and finally BCA holders not in the previous categories.</p> <p>The STCP would ensure that any algorithm forming a part of the ANM scheme, although TO owned, would discharge the obligations of the SO to NGET's satisfaction. The need for duplication of signals and the definition of acceptable fall-back modes of operation would also be defined such that any claim for compensation subsequent to any mal-operation could be dealt with fairly and efficiently.</p> <p>Should it not be possible for an ANM scheme to be delivered to NGET's requirements as SO, or correspond with the commissioning of a generator, then it is proposed that inter-tripping would be recommended and that this should be suggested to all relevant</p>

				developers at an early stage such that this functionality becomes an integral part of their development and thus not funded by the SO or TO, as this would enhance that developer's prospect of access to the Transmission System. Thus communication and SCADA facilities would be available as a reversionary solution.
1013-11	NGET to initiate discussions with SPT in relation to the Kilgallioch ANM scheme and other similar schemes	BA		
1013-13	NGET to confirm the status of the Chapelcross planning request <b>Require a point of contact - acknowledgement</b>	KD	June '14	<p>Scope of works:- Protection at Harker 132kV will be replaced to be made compatible with SPT proposed changed. A P443 relay module to upgrade existing protection shall be designed, supplied, installed and commissioned at the Harker 132kV substation for the Harker-Chapelcross 132kV circuit. The protection will include (but is not limited to) the following functions: Feeder Protection Main Integral Inter-trip to Main Feeder Protections The new feeder protection will be integrated with existing DAR, Overcurrent, O/L Alarm and Trip, Overload Delay Timer Relay 1&amp;2, Synchronising and TR Reset Timer.</p> <p>There was debate between NG and SPT about the responsibility of the cross-site fibre works. SPT is expecting NG to carry out works to connect into the 400kV substation and NGET is only expecting to provide the fibre connection from relays to the SPT comms panel in the 132kV telecoms room</p>

				<p>believing SPT would match same point of service as existing (132kV). SPT have noted that the termination point for multiplexed services is at the 400kV. This is yet to be confirmed.</p> <p>The outages be moved to 12/10/15 – 9/11/15 as advised by SPT.</p>
1013-14	<p>NGET to liaise with SHET to decide on the scope of works required under the Longanet Inter-trip planning request. <b>Provide any justification that we see for the upgrade</b></p>	KD/BP	June '14	<p>First teleconference was held on 20 June 2014, the next is planned for mid-July when SPT expect to have some initial programme information.</p>
1013-15	<p>NGET to update the Construction Planning Assumptions as soon as practicable.</p> <p><b>Short Term - current CPAs being updated from July 2013</b></p> <p><b>Longer Term - looking to change how information is accessed via the TEC Register by Scottish TOs by means of a change to the STCP and provision of useful guidelines on ranking.</b></p>	VH		
1013-16	<p>NGET to update on the Grid Code modification in relation to W24 Submissions</p>	KD	July '14	<p>The Industry Consultation, in conjunction with the DCRP, was published on 25 February 2014 and closed on 25 March 2014. National Grid has submitted the Report to the Authority and barring issues should be complete by the end of August. This being the case, provided that the Grid Code changes can be implemented fairly quickly it is quite possible for the data to be a part of the 2015 data process that starts in week 17.</p>
1013-17	<p>NGET to start the discussions internally on this the embedded generation issues.</p>	AH	June '14	<p>NG looking at internal and embedded generation on access rights, connection process, against planning codes &amp; planning</p>

				standards - as volume doesn't just net off some demand anymore. Has been placed on the ENSG Agenda. Discussions are ongoing.
1013-18	NGET to specify dates and milestones, and provide clarity on what is required from the TOs	RP		
1013-19	NGET to check concerns about voltage control  <b>No major concerns</b>	KD		
1013-20	OC subgroup needs to work with OFTOs to clarify the concerns and propose a code change if required.  <b>Proposal made recommendation to GS and e-mailed this to interested parties for info.</b>	KD to liaise with Graham Stein		
1013-21	Subgroup leaders to advise on the timeline for STC/STCP changes	Subgroup leaders		
1013-22	NGET to update on any ongoing assessments on SSR and filters.	XZ		
1013-23	SPT to provide a briefing note on GSR10 to BP  <b>The commercial aspects have been considered before taking the decision to put it out to consultation again.</b>	DC/DA		
1013-24	NGET to ensure that DA and BP are involved in the discussions	BA to liaise with VH		
1013-25	NGET to share views on connections on sub-transmission voltages with SPT and SHET. <b>More clarity required. High priority. Action reassigned to KD to reflect on and provide proposals.</b>	KD	June '14	Briefing note to NGET staff attached. New Action <b>0710-03</b> raised
1013-26	NGET to issue the voltage control Planning Request to SPT  <b>Complete - 7th Feb</b>	KL/BA		

1013-27	Investment Planning Subgroup to add Voltage Issues on the agenda for the next meeting	SW		
1013-28	Investment Planning Subgroup to add Bol on the agenda for the next meeting	SW		
1013-03	JPC does not cover Yr1 & 2 but concerns raised by AH that lessons learnt from Yr1 & 2 should be fed back to JPC to ensure appropriate actions are taken forward.			
0114-01	Mark Osborne to provide an update on the success around the Humber Smart Zone. <b>AH to follow-up with MO</b>	AH/MO	June '14	Installed dynamic ratings (weights) and now collecting information ready for analysis in about 12 months' time.
0114-02	NGET to provide estimates on what the benefits of undertaking this upgrade is recognising the estimated capital cost. <b>Action reassigned to KD to report back by mid-June</b>	KD	Mid-June	<p>There have been a number of Planning Requests related to this but the future low level of availability anticipated for PEHE and LOAN generation dictates that we reappraise the issues.</p> <p>It is recognised that the request by SPG to resolve the long-standing issue at LOAN may still need to be resolved (Action 1013-14) and I've asked for their input, but that the need for communication system improvements between STHA and PEHE yielding a 35ms improvement in response has now gone.</p> <p>KD has been in contact with the power station and waiting response to query regarding continuing need for resolution of the unit selectivity issue.</p> <p>The potentially low level of conventional plant availability does leave a potential issue in the management of B6 boundary under high wind generator output conditions; hence the submission of the planning requests</p>



				PR_2014_SHET001 and PR_2014_SPT001.  The benefit of the B6 I/T scheme for the 2013/4 year being ~£147,000/intertrippable MW thus making the design and use of these schemes economic on the assumption that scheme arming and utilisation costs are proportionate.  No significant benefits in reducing clearance times.
0114-03	Embedded generation, smalls and BELLAs remain an issue as they aren't included on the TEC Register, NGET to look into extracting that information from the Week 24 submissions.	AH/BA		Guidance note will be produced.
0114-04	JPC Recommend that STCP11.1 is updated to provide feedback on the outage plan for Yrs. 1 & 2, including lessons learnt, to the Operational Assessment subgroup. The Subgroup then reviews and passes the issues to the appropriate group then coordinate and feedback up the JPC. <b>KD Reported back</b>	AH/KD		
0114-05	DA to check against the current list of TORIs to see if any have been overlooked.	DA		
0114-06	Confirm who recipient/post box is within NGET.	BA		
0114-08	Request SW to put a note to the JPC after the IPC meeting on the 7th Feb to confirm what they have agreed to do and the timescales.	SW		
0114-09	AH to contact Prof. Keith Bell to ask if there is anything he needs from us to support his work, if not then offer a meeting after then end of February to share our findings. <b>DA confirmed Prof. Keith Bell was working in an ad-hoc advisory position and had not been asked to specifically look at Scottish Security of Supply at this time.</b>	AH		

0114-10	BA to provide background to DA on the outage combination conditions that require NG to use Harker to secure demand for E&W and liaise with Investment Planning committee. <b>Options being discussed - defer to subgroup to resolve.</b>	BA		
0114-12	JPC Operational Assessment Subgroup to advise on the acceptable level of complexity for Operational Inter-tripping schemes/ Active Network Management Schemes.	OA SubG	June '14	<p>During discussion by the subgroup KD advised that he is proposing an STCP Modification Proposal to create a new STCP specifically for ANM schemes in the expectation that a working group will be convened to consider this and the wider issues created by such schemes, including the interaction with I/T schemes. This has been approved by the STC Panel.</p> <p>It is anticipated that ANM schemes will interface with the SO's future Energy Balancing System (EBS) due in service in early 2015, which will perform a security constrained despatch of generation in the Balancing Market but also could perform an Automatic Generation Control (AGC) function. The rules used to constrain generation would need to be carefully considered depending upon their status e.g. small distribution connected, BELLA, BEGA and finally BCA holders not in the previous categories.</p> <p>In the interim NGET are not proposing to suspend development of ANM schemes but that these or inter-trip schemes will need to be addressed on an individual needs basis until an agreed formal strategy is adopted. NGET is anticipating that the AGC (automatic generation control) algorithms that are being</p>

				<p>considered for the new Energy Balancing System may be a way forward and that the SO and TOs can get their experts to discuss the possibilities in due course. It is not anticipated that a formulaic approach to setting a complexity limit is necessary as each project would be approached on its merits.</p> <p>Note: The EBS does so-called network-secure dispatch and hence an export limit for a region may be set.</p>
0114-13	Discuss generic issue with Commercial and put some clarity around the process both for internal guidance and publicly for generators to view how we will be considering the application. Set up meeting with John Twomey, AH & BA.	AH/BA	June '14	
0114-14	Prepare a note for JPC on lessons learnt and proposals for taking them forward, and any issues the JPC are required to intervene on. RP	RP		
0114-15	Set target to review and update relevant STCPs for ETYS. RP	RP		
0114-16	KD to draft some proposals to share with the JPC.	KD		Code amendments have been proposed.
0114-17	KD to provide a brief following the meeting. <b>STC</b>	KD		Section K has been reviewed as adequate and the NG Reactive Working Group subsequently wound up.
0114-18	OA Group to review and update relevant STCPs and update PLD pro-forma.	OA SubG	June '14	<p>KD advised that a draft of STCP18-1 is to be re-circulated to potential contributors shortly and has been submitted to the June 2014 STC Panel for comment and for subsequent issue.</p> <p>KD advised that STCP11-1 is presently being slightly amended to reflect the agreement to incorporate feedback from current year</p>

				<p>planning into the longer term planning process, but issue is not anticipated until November 2014.</p> <p>Consideration of changing STCP11-3 is to perform outage costing in year 1 is outside the remit of the JPC-OA (which covers years 3-8). It is considered that this is the responsibility of the Project Coordination and Progress Review sub-group's remit.</p> <p>The PLD pro-forma is considered adequate in its current form by the JPC-OA (STCP16-1 refers), and is the responsibility of the JPC-IP.</p>
0114-19	OA Group to update and re-circulate ToR following meeting in March.	OA SubG		Completed 27 March 2014.
0114-20	All subgroup to inform JPC on proposed timescales for updating STCPs. JPC will then feed this back to the STC committee. <b>VH to follow-up with subgroups</b>	All SubGs VH	June '14	Completed
0114-21	Before the next ENSG Meeting JPC to hold a teleconference to share rationale for the selection of projects included in the ENSG templates. <b>VH to arrange for end of May</b>	VH	May '14	Agreed at ENSG to keep reporting on projects
0114-22	AH to feedback Schedule 3 review to STC alongside STCP reviews and Boundary of Influence data exchange?	AH	June '14	
0114-23	On North Connect AH to find out what involvement Scottish TO should have had in signing off the CBA.	AH		
0114-25	Request Modelling Subgroup to review provision of Wk. 24 Data back to the TOs with regular updates.	AH		
0114-26	AH to keep DA updated on the situation. <b>Investment Planning Group to follow up on this.</b>	AH		
0114-27	MB to set up teleconference when agenda is circulated.	MB		

0429-01	Investment Planning Subgroup to report back following their meeting in May. Ref Bol.	SW/AH		Agenda item
0429-02	BP/AH to check if Paul Nielsen has had any involvement with CBAs.	BP/AH	June '14	Yes
0429-03	JPC members asked to reflect and feedback on, Connection Applications processes, Planning Assumption requirements to ensure NG can deliver what TOs want in a time and format that is useful, and indeed any other policies and/or processes that are a cause for concern back to VH or direct to AH or KD.	JPC members	June '14	Agenda item
0429-08	AH to speak to Angela Quinn regarding using Condition 2B (rather than M&N) to demonstrate how we've ring-fenced the application and kept it up to director level as separate.	AH	July '14	CION process used to look at this - worked quite well. Only challenge in adopting the CION process in an application timescale is difficulty in getting decisions made that meet everyone's timescales. Needs a lot of discipline timewise.
0429-09	BP to review. (updated CSSs)	BP	July '14	Spoke to Jim Molley - Resource Issue - request to prioritise a list.
0429-10	KD to set up teleconference/workshop with TOs and Commercial to find a common place to deal with short-medium term issues.	KD	July '14	First teleconference held 19 June 2014 AH volunteered to circulate notes on meeting.
0429-12	KD to review chairmanship for Project Coordination and Progress Review subgroup.	KD	July '14	As SNPT is split by TO in terms of review and management and staffing, this will be split between Kanan Ganakesavan (SPT) and Stephen Nyemba (SHE-T).
0429-13	RP to identify key dates and put some telephone conferences in with the JPC that can be stood down if not required.	RP	July '14	Dates circulated 10/07/2014
0429-15	XZ to provide the JPC with information on increasing number of HVDC links there is greater interaction - how do we ensure all the TOs have got the appropriate models to study the network performance	XZ	June '14	Workshop scheduled for 2nd October to compare models and will feedback following the meeting.
0429-16	KD to email round (current projects in scope for	KD	May '14	Completed May '14

	inter-tripping)			
0429-17	VH to include full membership details on JPC Subgroups report.	VH	July '14	Completed July '14
1013-12	SPT to confirm whether Strathaven/Harker works are still required with the change of the generation background.	DA		CLOSED  Still including these works in some connection offers
0114-11	AH to put an ENSG paper together on non-firm access	AH		CLOSED  Completed - Circulate!
0429-04	SPT & SHETL to review. (Denny SGT Overload)	DA/BP		CLOSED  No plans to install 2nd transformer
0429-06	Action for Investment Planning Group - on reflection we get a number of applications - in ETYS should we periodically do a joint stability study.	SW		CLOSED
0429-07	Action for Investment Planning Group - to review the programme of work.	SW		CLOSED - moved to JPC-IP responsibility
0429-11	KD to pick up issues with TOCAs and templates as part of Performance Excellence.	KD		CLOSED  Under way - Jim Molley to lead
0710-01	KD to agree and review as part of working group priorities and timescales on planning requests already made.	KD	by next meeting	CLOSED  ANMWG - trial to be arranged
0710-02	KD to organise for Liena Vilde to speak to TOs regarding interface with ENA Working Group. TOs to nominate persons to be involved.	KD/LV  TOs	by next meeting	CLOSED
0710-03	KD to pull together a small working group to identify a range of solutions for consideration. DC to ask Transmission Ops and Distribution Ops colleagues to contribute.	KD/DC	by next meeting	CLOSED  Circulated a paper. Control Room agreeable.  If there are no distribution circuits connected to those 33kV bars our Control Room are prepared to take control of them - otherwise

				they won't.
0710-04	AH to establish a review on how to manage data exchange (ref: Closed action 0114-22)	AH	by next meeting	CLOSED RP update ETYS - EMR Team debate
0710-05	XZ to feedback following 2nd October Workshop comparing models used to study network performance in light of increasing HVDC links with greater interaction.	XZ	by next meeting	CLOSED Still not working well focus needs to be maintained. Workshop Held - Plan in place to compare and fwd PF Model to SPT
0710-06	With the exception of the weekly meeting subgroups to provide latest minutes from subgroups and pull out highlights to share with the JPC.	Subgroups	by next meeting	CLOSED
0710-07	BP to review the flagging up of outages with conditions within SHET.	BP	by next meeting	CLOSED Outages dependent upon wind has been annotated. Wind has to be below 40% for the outages to be secure. Local arrangements put in place - SQSS Review taking place
0710-09	Modelling: All parties to action - where errors are identified or concerns, they are feedback in a constructive timely way.	All parties	by next meeting	CLOSED Action for Modelling Group Process in Place
0710-10	XZ to create an action log to identify issues and resolutions to be included in minutes and Modelling team to address creating a process for ease of feedback.	XZ	by next meeting	CLOSED
0710-11	Performance Excellence: KD/PS to set up a workshop in Scotland with TO reps.	KD/PS	by next meeting	Complete - positive meeting and follow up booked for October.

0710-12	Peterhead: AH to ask Karan to run a some quick studies on base load against current scenarios	AH	by next meeting	CLOSED  Prepared an internal note which was shared with System Design - where we sat and thought about different ways of doing wider and enabling works and what from an SO we are comfortable with - which comes back to the number of generators you control - is it enabling or do you have sufficient generation, you've got enough control actions that can make it wider. Obviously if it's wider - it gives us more time to do it. SW to share process later in the meeting.
0114-24	VH to investigate Livelink and Huddle	VH	COMPLETE	COMPLETE  Now have access to LL (will now work out how to set up a group)  KD to liaise with VH regarding usage.
0429-05	SPT & SHETL to review and update. (TORI & PLD updates for Kintyre-Hunterston)	DA/BP	COMPLETE	AHu to cross check with Mahesh (one of the PLDs requires a small tweak?)  COMPLETED – new TORI and PLD received 15/01/2015
1125-05	Connect & Manage - how does that relate to Peterhead, how do we release capacity? What really breaks the system?	SW	COMPLETE	completed later in the same meeting
1125-02	Modelling – B6 Solution? AH to take up with SW	SW	CLOSED	To be wrapped up into Action 0429-14
1125-03	Xiaoyao to invite Vandad Hamidi to next JPCMG to discuss modelling of Large Windfarms and sharing of information with Scottish TOs	XZ	By next meeting	?
1125-06	PLDs - TOs to provide response to proposed	DA/BP	by next	CLOSED



	process		meeting	
1125-08	Ref minute 3.1.1.6 - Xiaoyao to follow up and review governance	XZ	By next meeting	
0710-08	AH/RP to set up a day's workshop on NDP with SHET & SPT.	SW	by next meeting	COMPLETED
1125-01	Circulate ENSG paper on non-firm access to JPC members	AHu	by next meeting	COMPLETED
0127-01	XZ considering use of detailed models and speaking to Mark Horley.	XZ	By next meeting	
0127-02	Modelling subgroup to add standard agenda item to discuss wk24 data - check recent submission and ensure it's passed on to the TOs.	XZ	By next Modelling Group Meeting	CLOSED – completed
0127-03	1 week to give update on when we can receive PLDs with caveats.	DA	03/02/2015	CLOSED – Delivered as per agreement with KD Team
0127-05	Diyar to chase 4-letter code for Kendoon PLD?	DK	By end of week	CLOSED
0127-07	AHu to provide feedback on the role of the ENSG.	AHu	By Next Meeting	CLOSED
0127-08	Reflect on content that JPC might benefit from ENSG Discussion. Advise JL or AHu	ALL	By Next Meeting	CLOSED – Fedback to DECC and OFGEM
0127-11	Sade Onajobi/Tolu Esan to provide comments on drafts sent	SO/TE	By Next Meeting	CLOSED
0127-12	Sade Onajobi to provide list of outstanding CSSs to SPT	SO	By Next Meeting	CLOSED
0127-13	KD to speak to M O'Connor regarding statement re: Caithness outages.	KD		CLOSED – re: when doing the year ahead plan build we agreed a caveat that went into the TOGA outage plans “subject to wind conditions or control of small embedded generation” such that the outage could take place. Agreed with GWood at YA timescale. Current Year colleagues tried to re-negotiate that without success. MO’C happy with original statement however there is difficulty releasing outages in real time. Caithness

				issues have now been resolved through NG contracts.
0114-07	Provide an update on the progress of non load-related PLDs.	AM	CLOSED	Moved to regular Agenda Item
0127-09	Explore in own organisations how best to take Black Start forward? Agree who will take a lead at the next meeting. Consult internally.	ALL	CLOSED	Working Group has been set up. KD to request a status update from Pete Chandler for the JPC to include where we are at, what are the plans looking like, where we've got revised arrangements.
0127-10	KD to investigate BELLA register.	KD	CLOSED	Will flow through into the next circulation of the Construction Planning Assumptions.
042915-03	Concern relating to interaction between converters and LWF. XZ will ask MH to update.	XZ	CLOSED	Mark's view is that the way to model it is to model the effect of LWF through modifying the converter model at the common coupling point. He is happy to provide further explanation if he is contacted directly.  BP to contact MH directly.
042915-05	In regards to site changes add "What has happened since the last meeting" to Modelling agenda. XZ.	XZ	CLOSED	The agenda has been included in JPC modelling subgroup meeting on 30th of July
042915-06	Regarding external access to new SharePoint rollout. KD to provide IS contact name to XZ	KD	CLOSED	Completed
042915-07	Regarding changes at Hunterston-Torness (EDF).DA to send email to XZ to confirm he is aware of a change with a generator's plant, for XZ team to follow up to the generator along the lines of "we believe you may be changing plant or have changed plant, and would you ensure that you are complying with the Planning Code and supply an appropriate DRC"	DA XZ	CLOSED	E-mail were received from David, thanks. We made the date request to EDF (Andy.vaudin), but so far no update was received. We are chasing on it. FYI: in 2014 W24 response, EDF stated "Please note, however, that a Generator Transformer exchange process is underway across the nuclear fleet. These are like-for-like exchanges, so there will be no significant changes to the DRC data, but the DRC schedules will need to be updated and the new Generator Performance Charts appended. It is proposed to include all of

				these updates in the 2015 Week 24 submissions." So we should receive update this year.
042915-09	Regarding requests for updated CSSs. KD/SO to email DA with expected changes for CSSs at Hadyard Hill, Auchencrosch, Dalmally	KD/SO	CLOSED	Complete
042915-14	Issues regarding Embedded Generation - can we wait for high level meeting to kick-off? We can begin to nominate people from TO operations/ control room, Commercial and DNO (DSO scenario) to starts the conversations. Joint Technical/Commercial. KD - speak to Dave Witherspoon? TOs to nominate representation.	KD	CLOSED	KD reported back that the initial meeting had taken place and that things were now moving forward quite quickly. Nominations received from TOs.
042915-15	Regarding agreements with caveats. AHu to speak to DMcK to raise issues regarding building a robust plan and getting sign-on for agreements with caveats.	AHu	CLOSED	DMcK to be the ultimate sign off for outages, will be looking at provisions within the NAP now that Ofgem have signed it off, and is putting in a Commissioning Team to look at interface of project delivery and long term outage planning.
1125-07	Enabling/Wider decision tree - SW to send flow diagram to TOs	KD	CLOSED	CLOSED 061015
042915-10	Regarding lack of updates regarding GSR16. KD to request timetable from Ben Marshall for circulation.	KD	CLOSED	Expect to get something circulated by March 2016. CLOSED 061015.
210715-01	VH to find original communication to Ofgem regarding arrangements for confidentiality of information in respect of OFTOs. JPC to consider re-issuing that communication following the response from the STC Panel Meeting.	VH	CLOSED	Emailed to HKW for JL – copy attached.  CLOSED 061015.
270715-02	Add Embedded Generation update for next meeting Agenda and circulate timeline to JPC. KD	VH/KD	CLOSED	CLOSED 06102015.
270715-03	Operational Assessment ToR have been updated. KD to circulate.	KD	CLOSED	CLOSED 06102015.

270715-04	Review subgroups at next meeting. VH to circulate current TORS and add Agenda item	VH	CLOSED	CLOSED 06102015.
270715-05	SO to provide TOs with examples of good and bad PLDs.	SO	CLOSED	CLOSED 06102015.
270715-06	Discuss a review of scaling factors at the next SQSS. BP to raise	BP	CLOSED	CLOSED 06102015.