

JOINT PLANNING COMMITTEE

Minutes

Wednesday 29th April 2015
SPT, Ochil House, Blantyre

Attendees:

Brian Punton	SHET	David Adam	SPT
Andy Huthwaite (Chair)	SHET	Craig McTaggart	SPT
Keith Dan	NGET	Richard Proctor	NGET
Biljana Stojkovich	NGET	Xiaoyao Zhou	NGET
Vivien Hobbs (Tech Sec)	NGET	Dhaval Parmar	NGET

Apologies:

Julian Leslie
Diyar Kadar
Amanda May

1. Introductions

- 1.1. Craig McTaggart – Transmission Network Manager at Scottish Power

2. Sign off minutes from last meeting

- 2.1. Minutes were reviewed, accepted, and signed off.

3. Review Actions from last Meeting

- 3.1. Actions were reviewed. Completed, ongoing and new actions are identified on the attached Actions Register.

The following follow-up/ongoing actions were identified:

- 3.2. **1013-01 Action:** Concern raised with respect to the arrangements in place for OFTO's to ensure confidentiality of information. This has been previously raised with Ofgem, if no clear response has been received from Ofgem; we may need to raise our concerns again. It was noted that there was ongoing discussions with Ofgem with no response given yet. ***KD to update via email following STC Panel Meeting***
- 3.3. **0114-07 Action:** Provide an update on the progress of non load-related PLDs. ***KD to forward PLDs***

Amanda May and Dhaval Parmar are moving forward with PLDs for Blythe and HVDC Norwegian Link related works.
- 3.4. **0429-14 Action:** BA to circulate round a file note on Security of Supply - progress so far and key findings. ***RP to provide feedback. In process in putting Reactive Compensation in place in response to NESOS***

Discussion around load sharing, reactive compensation, modelling and assumptions relative to studied timeframe.

- 3.5. **1125-04 Action:** Bol Paper to be circulated Jan JPC. **RP to speak to SW before next JPC**

BP highlighted that if this could be circulated before the next JPC so that at the next meeting we can record that it has been agreed and signed off.

- 3.6. **1125-04 Action:** Enabling/Wider decision tree - **KD to send final flow diagram to TOs**

- 3.7. **0127-04 Action:** NG PLDs exchange – Interconnector NorthConnect/Blythe CION Process. **Blythe in Progress. KD to circulate once reviewed**

- 3.8. **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. **KD to take back JL.**

- 3.9. **0127-06 Action:** Extend PLD Process to larger TO. **VH to issue when complete**

- 3.10. **0127-09 Action:** Explore in own organisations how best to take Black Start forward? Agree who will take a lead at the next meeting. Consult internally. **KD to speak to Pete Chandler. ALL – to speak to local reps and highlight that JPC will be reviewing the status.**

Working Group has been set up. KD to request a status update from Pete Chandler for the JPC to include where are we at, what are the plans looking like, where we've got revised arrangements.

- 3.11. **0127-10 Action:** KD to investigate BELLA Register. **KD to provide an update before the next meeting**

Aware that progress has been made and intend to append to the next CPA issue.

4. Subgroup Reports:

4.1. Project Co-ordination

- 4.1.1. KD reported that there were no issues and that meetings were proceeding successfully.

4.2. Operational assessment – KD

- 4.2.1. KD reported there had been no meetings scheduled since last JPC.

4.3. Offshore Coordination

- 4.3.1. BS - raised question whether the Offshore sub-group should also consider Interconnectors. JPC agreed this sounded like a good idea, but would require a change in the ToR to reflect the scope that would be covered. DA indicated a potential overlap with the IP subgroup and suggested contact between the two groups to recognise the accountabilities and responsibilities are of each

just to be clear over where the delineation is.

- 4.3.2. **042915-02 Action:** 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. **BS**

4.4. ETYS

- 4.4.1. RP reported back on progress on ETYS – programme agreed, scenarios being discussed, study guidelines in draft, planning to follow same process as last year, keeping outside of ITPR and NOA.
- 4.4.2. Concerns were raised on using Gone Green scenarios as the basis for the models from ESP, questions raised given that each scenario are equally probable - what assurances are given to that end? If slow progression is more likely is GG still the correct scenario to use for ETYS. JPC previously discussed and agreed GG was the best option but now maybe the time to discuss it again and look at other scenarios. ETYS will flow through into NOA and decisions need to be taken now for preparation for NOA next March. The ITPR team is to look at this in more detail, but it is anticipated for NOA the slow progression scenario will be studied and used to inform the outcome.

4.5. Investment Planning

- 4.5.1. No update from IP subgroup

4.6. Modelling – XZ

- 4.6.1. XZ presented minutes from the last meeting
- 4.6.2. Dynamic model – ongoing work to make them consistent with TO models.
- 4.6.3. Working on more efficient Data Exchange.
- 4.6.4. Wind Farm modelling – generic modelling available from May – concerns raised about interaction between converters and Large Wind Farms (LWF) – modelling of LWF is very resource intensive. XZ to take advice from Generator Compliance.
- 4.6.5. **042915-03 ACTION:** Concern relating to interaction between converters and LWF. **XZ will ask MH to update.**
- 4.6.6. GDP - releasing model also in May
- 4.6.7. ITPR - Manomay - Trial runs on Scottish Boundaries. ITPR team looking at how we get data exchange appropriate for modelling NOA studies (maybe through PLDs). Difficulty in activating a scheme for one scenario and removing it for another.
- 4.6.8. NOA - seasonal boundary capabilities - concerns aired regarding obtaining timely datasets for the summer case where it's difficult to get convergence at the proper voltage profile.
- 4.6.9. DA enquired whether there is a register of connected generators which details if DRC has been submitted alongside Wk24 data.
- 4.6.10. **042915-04 ACTION:** Regarding Wk24 DRC Data. **XZ to speak to Nina to send an update of the records.**

- 4.6.11. **042915-05 ACTION:** In regards to site changes add “What has happened since the last meeting” to Modelling agenda. **XZ.**
- 4.6.12. KD advised that a new SharePoint version is to be rolled out within NG that will give external access – this would be useful for sharing Wk24 information for Bol – JPC happy to explore this further.
- 4.6.13. **042915-06 ACTION:** Regarding external access to new SharePoint rollout. **KD to provide IS contact name to XZ**
- 4.6.14. **042915-07 ACTION:** 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”**
- 4.6.15. **042915-08 ACTION:** Regarding Data Exchange. **KD to investigate a secure FTP site (Glyn Williams).**

5. Setting of PLD timetable as per STCP-16-1

- 5.1. KD advised on NGET TO responsibilities for PLDs who will provide periodic updates representing E&W TO to SPT mainly but also should there be a HVDC link via the North into SHET patch then updates would be provided there too.
- 5.2. DA advised that Project Listings would be supplied in line with the ETYS programme. DA also advised that an external resource is due to start in next few weeks to concentrate on PLDs for SPT.
- 5.3. **042915-09 ACTION:** Regarding requests for updated CSSs. **KD/SO to email DA with expected changes for CSSs at Hadyard Hill, Auchencrosch, Dalmally**
- 5.4. Discussion around when PLDs are raised in relation to TORIs for Strategic Wider Works and whether TORIs are defined anywhere.

6. Strategic Wider Works Updates

- 6.1. **SHET - AHu**
- 6.2. **East Coast** – Discussion around timescales for the submission of the needs case and potential impacts. AHu - Internal review and governance and will come back through normal channels.
- 6.3. **The Islands** - currently planning to submit need cases by December on the premise that in July SHET will get the LCF Budget announcement, confirmation of a strike price submission and state aid clearance from Europe. That will open up the window and allow the developers on the Islands to submit CFD bids in the October Auction. Actively working with Ofgem on pre-needs case submission. Understanding developer certainty. To deliver Island links by 2020/21.
- 6.4. **SPT - CMcT**
- 6.5. **Dumfries & Galloway** - CBA anticipated to start in June.
- 6.6. **NG - KD** – No update from NG

7. Joint Projects Updates

- 7.1. **SHET - AHu**
- 7.2. **Beaully-Denny** – 2 towers left to build, 187km/202km wiring complete. The South section for SHET is the last section to energise, due to complete Braco substation which is the tie-in point is due to complete next month. 400kV circuit is due to be energised Nov '15. Other remedial works around dismantling and wirescape rationalisation are due to finish in the next couple of months. Removal of access tracks and site remediation which will run in to Sept '16.
- 7.3. **Kintyre Hunterston** – the Crossaig/Carradale overhead line (the Kintyre end of the re-inforcement) all tower build completed 52 towers erected; now looking at mobilising for the stringing works. Crossaig substation all civils complete, GIS equipment and PSTs are now onsite, SGTs on schedule for delivery this week. Land cabling Kintyre underway, subsea cable manufacturing is complete. On target for Oct '15 energisation.
- 7.4. **Caithness Moray** - enabling work on land cable commenced in March, the manufacture of land cable in progress and 35% complete and on programme. Subsea cable manufacturing continues and there's ongoing type testing. Cable manufacturing 8 months ahead of schedule. Critical phase in terms of converter design. Compound platform now established at Spittle and Blackhillock - orders and contractors placed for electrical plant. Contract been awarded for Cables to Keith – due to commence in the next 2 months. Onshore AC works were mobilised at Mybster last month, Fyrish and Loch Beaully will be mobilised at the end of this month and platform works underway.
- 7.5. **Beaully Blackhillock Kintore** – old TII Project split over a number of phases. 275kV reconductoring between Beaully, Blackhillock and Kintore – Completion due in October this year. Phase 2 will complete in June and Phase 3 will complete in October '16. 160km of 4 phases complete. Dominated by outage issues and access rights.
- 7.6. **SWW** - TIRG Programme Beaully-Mossford OHL – on schedule for completion of the OHL work by Oct '15.
- 7.7. **SPT - CMcT**
- 7.8. **Series Compensation** - due to take first outage at Moffat on 9th March – this was postponed - no new date agreed, trying to align with second Eccles outage in July.
- 7.9. **East-West** - cable works due to start this month. On target for Autumn '16 completion
- 7.10. **Western Link** - civils >60% complete.
- 7.11. **Hunterston East** – GIS is being installed this month, site works are underway.

8. Working Groups

- 8.1. **ENSG**
- 8.2. No meeting since last JPC. ToR handed out in the meeting. AHu - series of correspondence to come up with views and ideas. DECC and Ofgem to review and send out a topic list. Waiting to hear the outcome of that.
- 8.3. **SQSS**
- 8.4. Proposal by SHET 220kV voltage - Bless put a paper together. Out for review. Limits for the range for 200kV to 350kV
- 8.5. Biljana picking up a workshop re: Offshore compliance.
- 8.6. **GSR10** - becoming a guidance note as opposed to becoming part of the SQSS.
- 8.7. **GSR08** - AHiorns big review of SQSS. Still with Ofgem for assessment.

- 8.8. **GSR16** - embedded generation - Bless picking that one up. Ben Marshall/Vandad Hamidi were leading but not had a recent update. Important as this affects Investment Planning and ETYS.
- 8.9. A number of issues were raised that are impacted by GSR16. JPC felt that SQSS Panel was the right place to deal with the issues but encouraged members to feedback concern to their reps.
- 8.10. **042915-10 ACTION:** Regarding lack of updates regarding GSR16. **BP to check with Bless on status.**
- 8.11. **042915-11 ACTION:** GSR16 Concerns. **ALL - Go back to reps to highlight concerns regarding impacts of SQSS**
- 8.12. DA - Treatment of Interconnectors in terms of SQSS - who has picked this one up?
- 8.13. **042915-12 ACTION:** SQSS Treatment of Interconnectors. **KD Check if Nick Harvey is correct contact**
- 8.14. **STC**
- 8.15. ANM working group. Concluded that the level of complexity that we could deal with ANM was for a double circuit, radial off main system – as sharing factors can be worked out). KD has agreed to update the draft STC and create a briefing note saying what ANMs could be used for.
- 8.16. **ENTSOE**
- 8.17. SHET have issues uploading data for TYNDP (issue being looked at by Bless)

9. AOB

- 9.1. DA - provision of data, more and more generators being offered non-firm or restricted availability access. With requests for data on the increase - what are we and are we not able to share, for them to be able to gauge what they can actually expect in terms of access.
- 9.2. **042915-13 ACTION:** 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.**
- 9.3. AHu – what is the long term enduring solution for Embedded Generation?
- 9.4. KD - Overload Protection Schemes, should they be enduring tools to control generation?
- 9.5. **042915-14 ACTION:** 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.**

- 9.6. KD - ERTS tailored to the type of service given (timings specified). SPT tend to state "On Completion" - we will be in contact regarding aligning practice to be consistent with other TOs.
- 9.7. KD – We have had a difficulty between planning and operational timescales where we've had an agreement with caveats (Yr Ahead with Graham Wood), yet when it's come down to Operational Timescales MO'C is getting a hard time. Who does GW go to for approval to agree caveats? AHu - David McKay, SHET Director of Operations.
- 9.8. **042915-15 ACTION:** 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.**
- 9.9. BP - ATOCO required for Fife generators - confirmed by DA.

10. Dates of next meeting

- 10.1. 21st July 2015 – Warwick
- 10.2. 13th October 2015 – Newbridge
- 10.3. January 2016 - Blantyre

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. This has been previously raised with Ofgem, if no clear response has been received from Ofgem; we may need to raise our concerns again. It was noted that there was ongoing discussions with Ofgem.	KD to speak to JL about re-assigning action	ONGOING	Will bring up under AOB at STC panel
0114-07	Provide an update on the progress of non load-related PLDs	MP	ONGOING	Require update from MP
0429-14	BA to circulate round a file note on Security of Supply - progress so far and key findings. Modelling – B6 solution (from Action 1125-02) Pass to JPC-IP to propose a way forward and report back to the JPC	SW	ONGOING	In Circulation 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? What is the probability that transfers would exceed 3.8 in the Winter period?
1125-04	Bol Paper to be circulated Jan JPC	SW	by next meeting	RP to speak to SW before next JPC
1125-07	Enabling/Wider decision tree - SW to send flow diagram to TOs	SW	By next meeting	
0127-04	NG PLDs exchange - Interconnector	KD speak	By Next	

	NorthConnect/Blythe CION Process.	to Cheng Chen	Meeting	
0127-06	Extend PLD Process to larger TO.	VH/KD	By Next Meeting	
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	By Next Meeting	
0127-10	KD to investigate BELLA register.	KD	By Next Meeting	

New

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.	KD to take back JL.	By Next Meeting	
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.	BS	By Next Meeting	
042915-03	Concern relating to interaction between converters and LWF. XZ will ask MH to update.	XZ	By Next Meeting	
042915-04	Regarding Wk24 DRC Data. XZ to speak to Nina to send an update of the records.	XZ	By Next Meeting	
042915-05	In regards to site changes add “What has happened since the last meeting” to Modelling agenda. XZ.	XZ	By Next Meeting	
042915-	Regarding external access to new SharePoint	KD	By Next	

06	rollout. KD to provide IS contact name to XZ		Meeting	
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	By Next Meeting	
042915-08	Regarding Data Exchange. KD to investigate a secure FTP site (Glyn Williams).	KD	By Next Meeting	
042915-09	Regarding requests for updated CSSs. KD/SO to email DA with expected changes for CSSs at Hadyard Hill, Auchencrosch, Dalmally	KD/SO	By Next Meeting	
042915-10	Regarding lack of updates regarding GSR16. BP to check with Bless on status.	BP	By Next Meeting	
042915-11	GSR16 Concerns. ALL - Go back to reps to highlight concerns regarding impacts of SQSS	ALL	By Next Meeting	
042915-12	SQSS Treatment of Interconnectors. KD Check if Nick Harvey is correct contact	KD	By Next Meeting	
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.	KD	By Next Meeting	
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	KD	By Next Meeting	

	Technical/Commercial. KD - speak to Dave Witherspoon? TOs to nominate representation.			
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	By Next Meeting	

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. Decision made.	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. Outages include reference to PLDs	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. <i>Recommend JPC to sign off ToR and study results and ensure joint planning.</i>	AH		
1013-08	NGET to provide information on Dynamic Line	AH		

	Ratings			
	ETYS includes DLR. New actions see below.			
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 schemes and includes background info. Action reassigned to Sade Onajobi</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 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. <i>KD to report back with priorities and agree a timetable</i>	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>

				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 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 <i>Require a point of contact - acknowledgement</i>	KD	June '14	<p>Scope of works:-</p> <p>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:</p> <p>Feeder Protection Main</p> <p>Integral Inter-trip to Main Feeder Protections</p> <p>The new feeder protection will be integrated with existing DAR, Overcurrent, O/L Alarm and Trip, Overload Delay Timer Relay 1&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 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. Provide any justification that we see for the upgrade</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>Short Term - current CPAs being updated from July 2013</p> <p>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.</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</p>

				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.
1013-17	NGET to start the discussions internally on this the embedded generation issues.	AH	June '14	NG looking at internal and embedded generation on access rights, connection process, against planning codes & planning 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 No major concerns	KD		
1013-20	OC subgroup needs to work with OFTOs to clarify the concerns and propose a code change if required. Proposal made recommendation to GS and e-mailed this to interested parties for info.	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 The commercial aspects have been considered before taking the decision to put it out to consultation again.	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. More	KD	June '14	Briefing note to NGET staff attached. New Action 0710-03 raised

	clarity required. High priority. Action reassigned to KD to reflect on and provide proposals.			
1013-26	NGET to issue the voltage control Planning Request to SPT Complete - 7th Feb	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. AH to follow-up with MO	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. Action reassigned to KD to report back by mid-June	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</p>

				<p>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 PR_2014_SHET001 and PR_2014_SPT001.</p> <p>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.</p> <p>No significant benefits in reducing clearance times.</p>
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. KD Reported back	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. 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.	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. Options being discussed - defer to subgroup to resolve.	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 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. STC	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	KD advised that a draft of STCP18-1 is to be re-circulated to potential contributors shortly

				<p>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 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. <i>VH to follow-up with subgroups</i>	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. <i>VH to arrange for end of May</i>	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	AH		

	Scottish TO should have had in signing off the CBA.			
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. Investment Planning Group to follow up on this.	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	RP	July '14	Dates circulated 10/07/2014

	if not required.			
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 inter-tripping)	KD	May '14	Completed May '14
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	<p>CLOSED</p> <p>Circulated a paper. Control Room agreeable.</p> <p>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.</p>
0710-04	AH to establish a review on how to manage data exchange (ref: Closed action 0114-22)	AH	by next meeting	<p>CLOSED</p> <p>RP update ETYS - EMR Team debate</p>
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	<p>CLOSED</p> <p>Still not working well focus needs to be maintained.</p> <p>Workshop Held - Plan in place to compare and fwd PF Model to SPT</p>
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	<p>CLOSED</p> <p>Outages dependent upon wind has been annotated. Wind has to be below 40% for the outages to be secure.</p> <p>Local arrangements put in place - SQSS Review taking place</p>
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	<p>CLOSED</p> <p>Action for Modelling Group</p> <p>Process in Place</p>

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	SW	COMPLETE	completed later in the same meeting

	breaks the system?			
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 process	DA/BP	by next meeting	CLOSED
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 – Feedback 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.
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