

BM System Replacement

Industry Consultation Responses

Transition from BM to EBS and Communications

16th September 2015

Responses to the consultation issued on 16th June 2015

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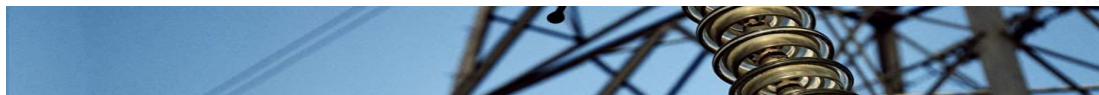
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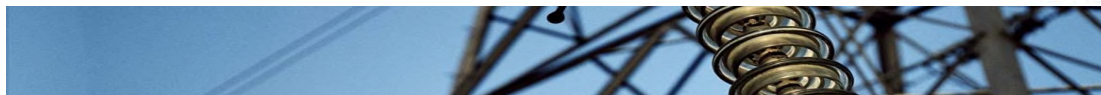
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1 EXECUTIVE SUMMARY

National Grid has consulted the Industry on the proposed Transition plan and the communications between National Grid and the Market Participants during this phase. The consultation document was published on 16th June 2015.

Seven Industry responses were received by 31st July 2015. This report provides a summary of the responses given by the Participants. These responses and other Participant's views gathered during EBS IT group discussions are incorporated into the Transition plan.

2 INDUSTRY RESPONSES

Seven organisations responded to the consultation:

- Quorum Development
- Esso Petroleum
- Drax Power Station
- International Power – Engie
- Siemens
- EDF Energy
- Calon Energy

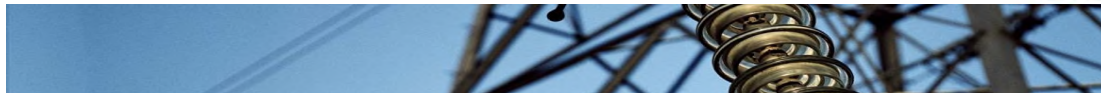
Some of the organisations have marked their answers as confidential; these were mainly about their experience during testing or other projects with National Grid. We have noted those comments and actioned on them but not included them in this report as requested. We have compiled all the Participants' answers together to simplify this report. For each question, National Grid's response to the industry comments is provided. The individual responses are included in the Appendix.

2.1 TRANSITION PLAN

The Transition draft plan published in September is attached here for reference. It already includes most of the Industry comments from this consultation

Transition is divided into 3 phases:

- For 12 weeks Operational Soak
- For 3 weeks Trial Runs
- For 2 week Go Live



2.1.1 OPERATIONAL SOAK

One item of the entry criteria into Operational Soak is to have completed all the circuit connectivity tests for both EDL and EDT. These functional and non-functional tests have run and will still be running until the end of 2015.

Consultation Question 1: *What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it?*

Summary of the Consultation answers:

Broad spectrum of answers from MPs and suppliers were received. Some of them have reported a good experience related with circuit connectivity tests. Some others have reported issues while testing, which lead to a number of attempts to make it work. One MP has reported no progress to date.

National Grid Response:

So far tests have covered circuit connectivity tests with MPs and informal type tests with suppliers. We have found different issues for each Participant and there has been different progress for each test, which is the expected result of current and previous testing phases. Connectivity test and informal type test are prerequisite for carrying out formal testing with MPs.

Subsequent phase is the formal testing, which involves end to end functionality leading to confirmation of compatibility between MP system and EBS. Formal test report for type testing will be circulated post the formal testing with suppliers are completed.

We will also work alongside those delayed MPs to recover their progress. This is not a concern for the time being.

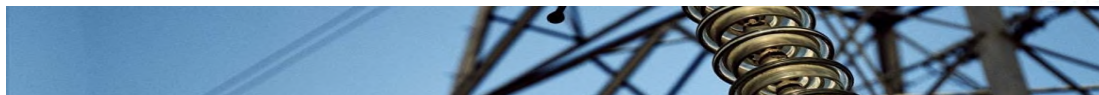
EDL Access Validation: During Operational Soak as agreed previously, National Grid will perform EDL access validation by disconnecting production EDL from BM, connecting it to EBS production system and then reverting back to BM. National Grid will analyse the connection log files, and action those failed connections.

Consultation Question 2: *Do you have any concerns about the procedure for EDL Access Validation?*

Summary of the Consultation answers:

Half of the respondents didn't have any concerns about this procedure. The other half showed some concerns as follows:

1. This validation requires thorough preparations and steps agreed beforehand
2. Ideally test BM to EBS EDL swap in test environment, prior to using production
3. Requires sufficient notice for EDL outage and reduced outage time
4. Requires formal notice of success at the end
5. No instructions or submissions during the validation
6. Requires enough National Grid support available



7. Ideally run the production validation on an off-line (for maintenance) unit

National Grid Response:

Considerations 1-6 are very relevant and are already part of the Transition plan. Comment 7 might not be feasible as it should include all units at the Control Point. We will liaise with each company in case this is to be implemented.

EDT Access Validation: we envisage providing the MPs with 3 different periods to connect their production EDT to the EBS production system to validate access. The validation could be done by just establishing an FTP connection or by submitting a file through the link.

Consultation Question 3: *At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation?*

Summary of the Consultation answers:

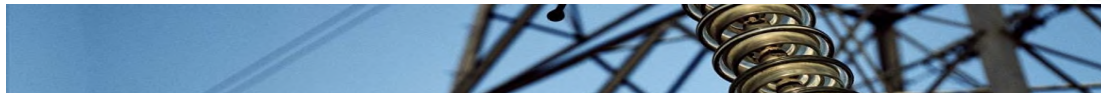
The Market Participants are considering all options to run the EDT validation, mainly advised by their software providers. Some specifically do want to test the end to end automatic production application to production application validation while others just want to do a manual file ftp to avoid the production outage.

National Grid Response:

We highly recommend performing the end to end automatic production to production validation as it would cover the whole EDT file submission process.

If the MP decides to perform the validation using a manual ftp submission, National Grid will provide a script which submits an EDT file and retrieves the ACK file. Although the script is run from the MP's production environment, please note that the script only simulates the behaviour of the application. This method reduces the MP's risk this time by avoiding using their production application, but it will have to be done subsequently when EDT cuts over. Hence National Grid suggests performing access validation using EDT production application.

Nevertheless, EDT validation is sole responsibility of the MPs therefore it's their choice.



2.1.2 TRIAL RUNS

The purpose of the introduction of the EBS trial runs is to avoid a big bang cut-over of such a critical system for the country, allowing building up the confidence on the stability of the Resource Dispatch module. There will be a limited number (2 to 8) of trial runs, which will include:

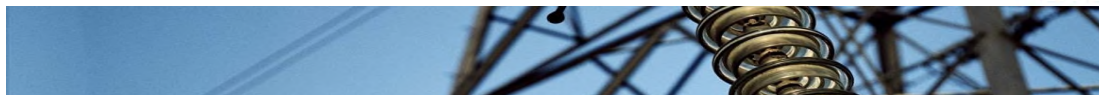
- EBS is receiving replicated EDL from BM and has been running the schedulers steadily
- EDL is disconnected from BM and is connected to production EBS
- EBS dispatcher starts sending instructions to MPs, initially a low volume of instructions
- validation of the stability of RD using both automated and manual instructions
- revert back EDL to BM once the exercise is complete

Consultation Question 4: *Do you have any concerns about this procedure?*

Summary of the Consultation answers:

The Market Participants expressed a number of questions related with the Trial Run phase, which are found below:

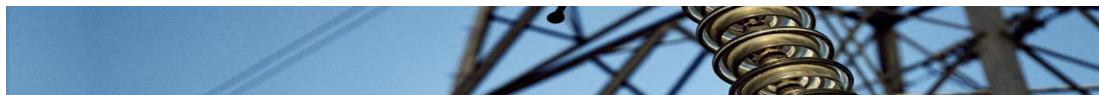
- a) During Trial Run, how do BM and EBS keep the instruction sequence numbers in synchronism?
- b) Does EBS produce BOAs in the same manner as BM?
- c) How is RD “forced” to send initially a low volume of instructions?
- d) Do the instructions during the trial runs generate normal payments?
- e) Is there a full schedule plan for each trial run?
- f) Are there fall-back plans for the trials if proved unsatisfactory?
- g) Is this intended to be a “full production” trial, with live instructions being issued?
- h) Is EBS data synchronised back to BM?
- i) Are EDL submissions allowed? Will these be “live”?
- j) How would National Grid deal with synchronisation issues between EBS and BM, should they occur?
- k) How long would the trial run last for each Participant?
- l) How many Participants would be included in each trial run?
- m) Will National Grid provide specific, named support personnel who can be contacted in the event of issues following the trial run?
- n) Are the trial runs achievable in one working day?
- o) There are only two weeks in the schedule for Trial Runs – it may be difficult to plan with so many Market Participants involved? Or is the proposal for each Market Participant to have a two-week Trial Run?
- p) We would be concerned around the potential impact on our Dispatch system following a trial run and would want to ensure that this risk has been fully mitigated by previous testing activities. We would need to understand what instructions and the volume of instructions expected and the impact on our station control room staff and traders.



- q) We would like to be informed in advance of this trial run so we can monitor our EDL software for errors.
- r) What will be the emergency/contingency procedure if the EBS system fails and we need to urgently communicate through EDL?

National Grid responses:

- a) There is EDL replication in place from BM to EBS prior to the trial and from EBS to BM during the trial. There is EDT replication from BM to EBS before and during the trial runs.
- b) Yes, the procedure to create BOAs in EBS has been copied from BM.
- c) The number of instructions per station is a parameter of EBS, so we can reduce it to a minimum initially.
- d) Yes, the instructions issued during the trial runs attract normal payments and are settled similarly to BM.
- e) Yes, it is part of the transition plan. Draft transition plan is circulated in Sep 2015.
- f) Yes, it is part of the transition plan. Draft transition plan is circulated in Sep 2015.
- g) Yes, it is intended to be a full production EDL trial, live EDL instructions will be issued.
- h) Yes, refer to response (a)
- i) Yes this is the purpose of the phase
- j) Full replication between BM and EBS will be in place, although in the event of non-alignment, the BM system is the master system during the trial runs.
- k) The length of the trials would be variable. Our current view is to have the first trials over the plateau. Next trials covering the evening peak. Followed by the morning pick-up to finish by covering the night periods. The length of each trial would be variable depending on the demand period we are studying. This would be initially between 2 to 5 hours, gradually increasing as the confidence builds up.
- l) All the Participants will have their EDL swapped over to EBS, although a limited number might receive instructions from EBS.
- m) We would provide email and telephone contact for all the trials. There will be a limited number of NG support available on the day. We envisage providing 1-to-1 approach only if requested by the MPs.
- n) Yes, they will be achievable within the period allocated.
- o) As stated every trial run involves the whole of the Participants.
- p) In principle the Market Participants system wouldn't notice if they are dispatched from BM or EBS except for the volumes of instructions as BM is manually dispatched and EBS is automatically dispatched. We have the ability to control the amount of EBS instructions by configuring EBS parameters, so initially this parameter will be set to minimum.
- q) Yes, clear communication plan and notice will be provided to all Market Participants.
- r) Yes, contingency plan is included as part of the transition plan.



On the specific day of a trial run and before the start of the run, we intend to have a teleconference open for the Market Participant to join to inform about the go-ahead, the progress and the return back to BM at the end. We could consider other forms of communication.

Consultation Question 5: *Would you prefer to have other forms of communication instead of / additional to a teleconference during the trial runs? If so, please state and explain the benefits.*

Summary of the Consultation answers:

Teleconference and email are suitable. Additionally availability of 1-to-1 communication would be better.

Teleconference might present issues if a lot of attendees want to use it to communicate to National Grid

National Grid responses:

National Grid will confirm by email the key steps for each trial (confirmation of date, time and length of trial in advance; start of trial; completion of trial; results of trial, actions and next steps). Additionally, a teleconference line will also be open during the trial. Lync might be considered additional to teleconference or as an alternative.

1-to-1 support will be available upon request.

At the end of each trial run we will analyse the run of EBS and we'll provide feedback about our findings. We expect to analyse in detail the actual dispatch instructions, the functioning of EDL/EDT and the monitoring of the EBS amongst others.

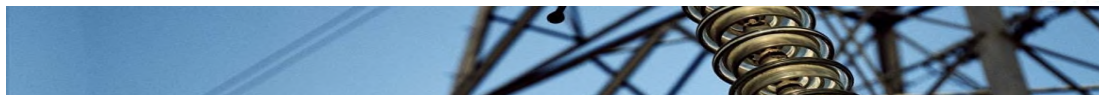
Consultation Question 6: *Is there any particular information you would like to have included in this feedback?*

Summary of the Consultation answers:

- a) The time at which the system is switched over and when it is switched back again, such that the Participant can compare with their own EDL/EDT logs.
- b) We need to ensure that we know what we are looking for and when we expect to see it.
- c) It would provide some assurance (about EBS) to MPs if NGET shared their findings with MPs.
- d) Confirmation that all submissions and instructions have been replicated.
- e) Comparison of performance/throughput between BM and EBS.
- f) Comparison of Thermal vs. Nuclear station performance.

National Grid responses:

Feedback to the trial runs will be provided by email once National Grid has analysed the results. All suggestions above will be considered to be included in the feedback if relevant.



We are interested too on the Market Participants experience of the trial run / outage (before, during and after).

Consultation Question 7: *How would you like to provide this feedback?*

Summary of the Consultation answers:

If EDL doesn't reconnect quickly, fast communication with National Grid is expected to solve connection.

Any other feedback Participant to National Grid would be provided by email after the trial.

A questionnaire delivered to Market Participants.

National Grid responses:

As suggested, National Grid could consider providing a questionnaire to the Market Participants for feedback. In its absence, feedback by email is also welcome.

2.1.3 GO-LIVE

Yet again to avoid a big-bang on the balancing tools, the Go-Live date will be planned similarly to a trial run, but with no return to BM. Once completed EDL connection to production EBS, next step is the EDT cutover, which will happen in stages with each Market Participant.

Consultation Question 8: *What support do you expect / require from National Grid for the EDT cutover?*

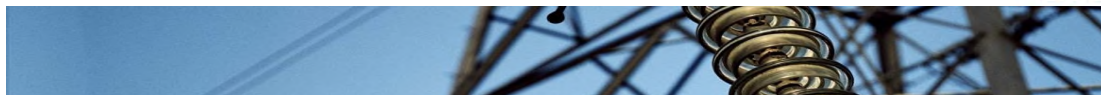
Summary of the Consultation answers:

Generally the Market Participants have reiterated issues mentioned previously, as having full details of the cutover process and direct access to individual telephone support, especially during the first trading submission to EBS once gone live.

Additionally providing a Q&As to base successful completion upon and sufficient time to do the cutover.

National Grid responses:

Depending on the experience on all the previous activities, the EDT cutover might or not require 1-to-1 support for each Market Participant. It is expected to be arranged individually is requested.



Are there any other comments that you wish you to make on this consultation?

Summary of the Consultation answers:

MP test windows need to be communicated to MP's with as much advance notice as is possible – and should not be re-scheduled near to the date. These tests require many resources across many teams to be available if required or to participate, and therefore take substantial organisation to schedule.

A more detailed description of the EDL and EDT cutover process is required. Until this is done, the responses to questions 4-8 should be considered preliminary.

Documentation for Control Room staff and Traders (i.e. end-users) around EBS implementation and any expected differences in behaviour/procedures etc.

We are not currently subscribed to the National Grid EBS IT meeting communications, we would like to know how we can participate in these

National Grid responses:

National Grid is committing to 4 weeks' notice to the start of each validation window or each trial run. We are unable to provide with longer fixed notices, but we can give earlier approximate indication.

More detail is required explaining the different phases. We will liaise with the Market Participants to cover this in the Transition Plan.

3 NEXT STEPS

The dates for the Transition plan are:

- Draft – Sept 2015 (attached above)
- Final – Dec 2015
- Final with dates – 4 weeks before transition (currently expected March 2016)

National Grid will keep the industry informed of the progress of the system development work via normal communications such as the Operational Forum, the GCRP and the newly created EBS Stakeholder distribution list.

3.1 FURTHER QUERIES

If you have queries regarding the Transition Plan or the consultation, please contact:

Antonio del Castillo

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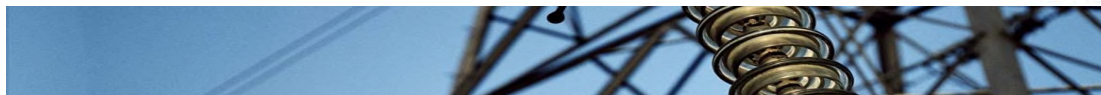
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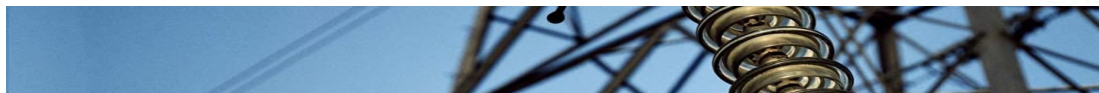
4 APPENDIX: CONSULTATION INDIVIDUAL ANSWERS

| | |
|---|--------------------|
| Respondent: | John Sherban |
| Company Name: | Quorum Development |
| Does this response contain confidential information? | No |

| No | Question | Response |
|----|---|---|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | EDL and EDT tests so far have concentrated (correctly) on the comms element. Now it is time to focus on the content of the messages that the EBS is going to send over the EDL link and prove that the EBS and BM will send the same messages in the same situations. This comment is especially relevant as far as our software is concerned for BOA instructions. |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | No |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | This is a matter for the market participant. We have one customer (Esso) that will no doubt request us to provide them with advice on the extent of testing. If I were providing advice to them I would try to test the full end to end connection by using Esso's system to send a file to the EBS that duplicates the existing PN for a period 12 hours ahead of time. On changing back to using the BM I would get the Esso system to once again send a PN file to the BM with duplicate data for a period 12 hours ahead of time. |
| 4 | Do you have any concerns about this procedure? (section 2.2.2) | I have two concerns: <ol style="list-style-type: none"> 1) It would be necessary for the EBS and BM to keep the sequence number of instructions (from the EBS) and submissions (from the market participant) synchronised, so that the market participant system does not see any changes in the sequencing of messages between the two systems. 2) The manner in which the EBS sends BOA instructions should be checked to ensure |

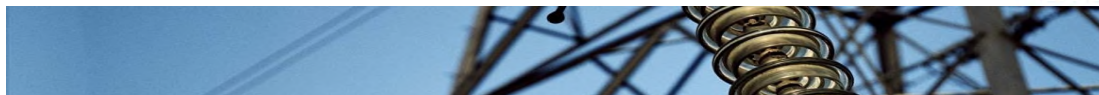


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| | | consistency between the EBS and BM EDL systems in the way that plants are instructed on and kept on using BOAIs. This behaviour is undocumented at present. |
| 5 | Would you prefer to have other forms of communication instead of / additional to a teleconference during the trial runs? If so, please state and explain the benefits. (section 2.2.2) | As the trial runs for EDL are expected to only last minutes a teleconference is probably the best way. I would hope that the MP attendees at the teleconference would be also connected to their stations' control rooms so problems in the control rooms can be relayed instantly to National Grid. For EDT trial runs a daily teleconference would be useful that would be used to disseminate issues experienced during the trial run. |
| 6 | Is there any particular information you would like to have included in this feedback? (section 2.2.2) | The time at which the system is switched over and when it is switched back again. This will allow each participant in the test to gauge if their EDL system is reacting to the changes and reconnecting quickly. |
| 7 | How would you like to provide this feedback? (section 2.2.2) | National Grid should provide this feedback in the teleconference. If a market participant's EDL system does not reconnect quickly then their representative could be emailed separately. |
| 8 | What support do you expect / require from National Grid for the EDT cutover? (section 2.2.3) | This is a question for each market participant to answer. If I was a MP I would prefer if NG would be on the phone with me whilst I had made a trial submission to the new EBS once cutover has taken place. Of course I would also expect NG IT to be on standby of there were any problems. |
| | Are there any other comments that you wish you to make on this consultation? | |

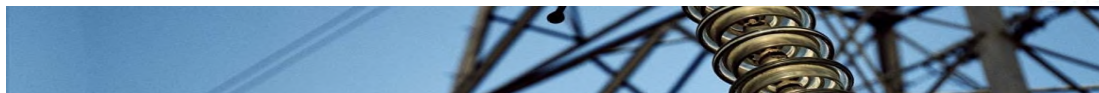


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|---|------------------------|
| Respondent: | Hannah Howard |
| Company Name: | Esso Petroleum Company |
| Does this response contain confidential information? | No |

| No | Question | Response |
|----|---|---|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | EDL and EDT tests so far have concentrated (correctly) on the comms element. Now it is time to focus on the content of the messages that the EBS is going to send over the EDL link and prove that the EBS and BM will send the same messages in the same situations. This comment is especially relevant as far as our software is concerned for BOA instructions. |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | No |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | I would try to test the full end to end connection. This would be done by using our system to send a file to the EBS that duplicates the existing PN for a period 12 hours ahead of time. On changing back to using the BM I would get our system to once again send a PN file to the BM with duplicate data for a period 12 hours ahead of time. |
| 4 | Do you have any concerns about this procedure? (section 2.2.2) | We need to ensure that sequencing is consistent between the two systems We also need to ensure that moving between the two systems is also fully understood and that the management of change procedures are documented for all participants. |
| 5 | Would you prefer to have other forms of communication instead of / additional to a teleconference during the trial runs? If so, please state and explain the benefits. (section | Telecon and email are suitable. We need to ensure that we can gain data from all points in the process simultaneously to troubleshoot any issues. |

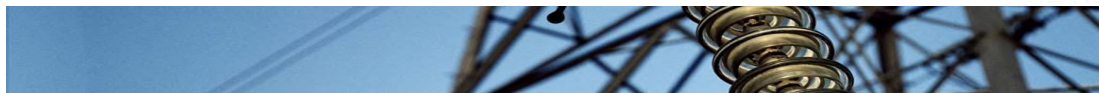


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| | 2.2.2) | |
| 6 | Is there any particular information you would like to have included in this feedback? (section 2.2.2) | We need to ensure that we know what we are looking for and when we expect to see it. |
| 7 | How would you like to provide this feedback? (section 2.2.2) | During the telecon and via written communication (email). |
| 8 | What support do you expect / require from National Grid for the EDT cutover? (section 2.2.3) | I would like to be able to call NGT during the transition so that I can explain what I see, whether or not this is what is expected |
| | Are there any other comments that you wish you to make on this consultation? | |

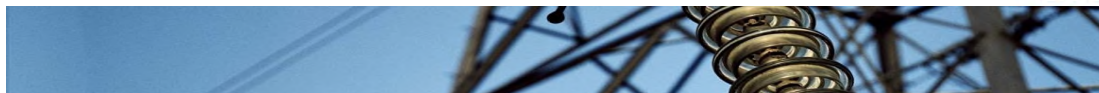


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|---|----------------|
| Respondent: | Edward Burnell |
| Company Name: | Drax Power Ltd |
| Does this response contain confidential information? | No |

| No | Question | Response |
|----|---|---|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | Drax appears to have been bypassed so far. |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | No |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | <p>We would hope to use our Production system but have not yet established a viable means to achieve this.</p> <p>Our fallback position would be to use a manual submission.</p> <p>It would be useful to receive EBS return ACK/ACC files – is this planned?</p> |
| 4 | Do you have any concerns about this procedure? (section 2.2.2) | Will the RD be “forced” to send instructions to MP’s “...initially a low volume...”. What will these instructions be and presumably will initiate the appropriate payment mechanism? |
| 5 | Would you prefer to have other forms of communication instead of / additional to a teleconference during the trial runs? If so, please state and explain the benefits. (section 2.2.2) | It may be that a specific MP has an issue – would it not be better to also have in addition a means of 1-1 communication? |
| 6 | Is there any particular information you would like to | It would provide some assurance (about EBS) to MPs if NGET shared their findings with MPs |

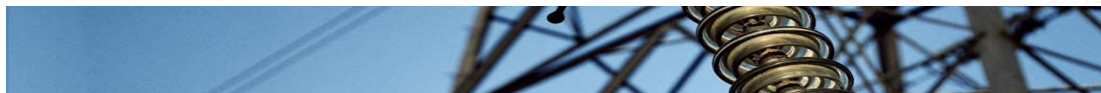


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| | have included in this feedback? (section 2.2.2) | |
| 7 | How would you like to provide this feedback? (section 2.2.2) | e-mail seems the easiest means. |
| 8 | What support do you expect / require from National Grid for the EDT cutover? (section 2.2.3) | Not sure what is meant by support. We expect to have a 1-1 contact with NGET to ensure the cutover proceeds smoothly. We should not require any support for our systems or changes to them. Clearly if there is an issue we may need NGET technical support to advise on what EBS is reporting as a problem. |
| | Are there any other comments that you wish you to make on this consultation? | MP test windows need to communicated to MP's with as much advance notice as is possible – and should not be re-scheduled near to the date. These tests require many resources cross many teams to be available if required or to participate, and therefore take substantial organisation to schedule. |

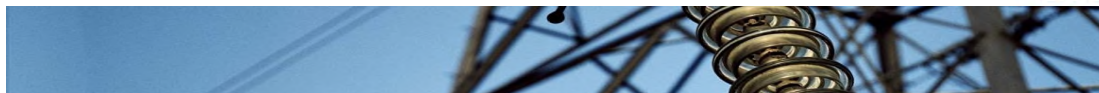


| | |
|---|--|
| Respondent: | Andrew Scott |
| Company Name: | International Power (First Hydro, Rugeley, Deeside, Saltend, Indian Queens) |
| Does this response contain confidential information? | Yes. |

| No | Question | Response |
|-----------|---|-----------------|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | Confidential |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | Confidential |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | Confidential |
| 4 | Do you have any concerns about this procedure? (section 2.2.2) | Confidential |
| 5 | Would you prefer to have other forms of communication instead of / additional to a teleconference during the trial runs? If so, please state and explain the benefits. (section 2.2.2) | Confidential |
| 6 | Is there any particular | |

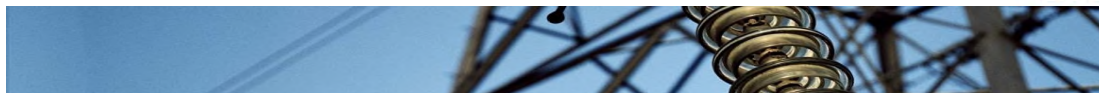


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| | information you would like to have included in this feedback? (section 2.2.2) | |
| 7 | How would you like to provide this feedback? (section 2.2.2) | |
| 8 | What support do you expect / require from National Grid for the EDT cutover? (section 2.2.3) | Confidential |
| | Are there any other comments that you wish you to make on this consultation? | |

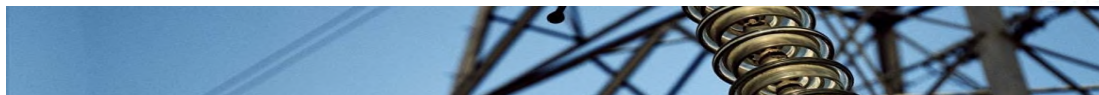


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| Respondent: | Michael McDermott |
| Company Name: | Siemens PG IE |
| Does this response contain confidential information? | Response to question 1 should be treated as confidential. Other responses are not confidential. |

| No | Question | Response |
|----|---|---|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | Confidential |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | <p>The process for switching participants back to BM should be tested thoroughly prior to starting the access validation test.</p> <p>No submissions must be accepted by National Grid, and no instructions issued during the access validation test.</p> <p>National Grid should ensure that they have specific, named support personnel available to ensure that any issues with reconnection can be dealt with quickly. They should also ensure that participants are notified immediately if there is an issue with reconnecting to the BM.</p> |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | <p>We will recommend that participants do not submit data during the access validation tests, as it may have adverse results on their other systems. Instead, we recommend that participants perform a manual FTP process to send a file to the EBS. The most preferred option is for National Grid to provide a script so that impact is minimised and results are consistent.</p> |
| 4 | Do you have any concerns about this procedure? (section 2.2.2) | <p>We would require more technical detail about this approach before providing a complete list of concerns, as the consultation and referenced documentation is at too high a level. Initially we have the following questions:</p> |

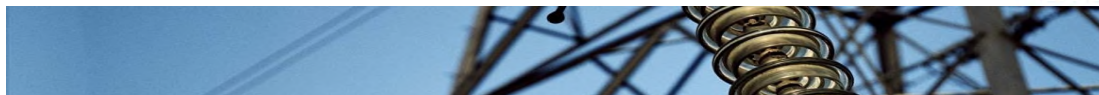


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| | | <ul style="list-style-type: none"> - Is this intended to be a “full production” trial, with live instructions being issued? - Is EBS data synchronised back to BM? - Are EDL submissions allowed? Will these be “live”? - How would National Grid deal with synchronisation issues between EBS and BM, should they occur? - How long would the trial run last for each participant? - How many participants would be included in each trial run? - Will National Grid provide specific, named support personnel who can be contacted in the event of issues following the trial run? |
| 5 | <p>Would you prefer to have other forms of communication instead of / additional to a teleconference during the trial runs? If so, please state and explain the benefits. (section 2.2.2)</p> | <p>An open teleconference line is a necessity. It would be preferable for National Grid to send confirmation emails at critical points in the process (e.g. start of trial run, completion of trial run, results of trial run)</p> <p>Previously during the circuit connectivity tests, there were a number of participants represented on a single teleconference. This resulted in a lot of wasted time, particularly for participants who were tested toward the end of the call.</p> |
| 6 | <p>Is there any particular information you would like to have included in this feedback? (section 2.2.2)</p> | <p>Confirmation that all submissions and instructions have been replicated.</p> |
| 7 | <p>How would you like to provide this feedback? (section 2.2.2)</p> | <p>By email.</p> |
| 8 | <p>What support do you expect / require from National Grid for the EDT cutover? (section 2.2.3)</p> | <p>A detailed process description should be provided by National Grid for trial runs and cutovers, to enable a thorough review. It is not possible to give categorical statements regarding support until this has been done.</p> |
| | <p>Are there any other comments that you wish you to make on this consultation?</p> | <p>A more detailed description of the EDL and EDT cutover process is required. Until this is done, the responses to questions 4-8 should be considered preliminary.</p> |

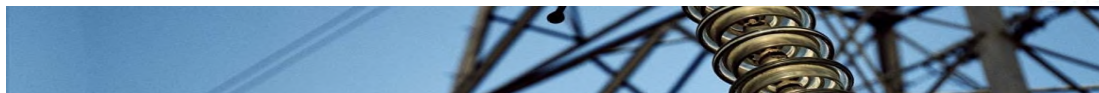


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| Respondent: | Graham Bunt (graham.bunt@edfenergy.com) |
| Company Name: | EDF Energy |
| Does this response contain confidential information? | No |

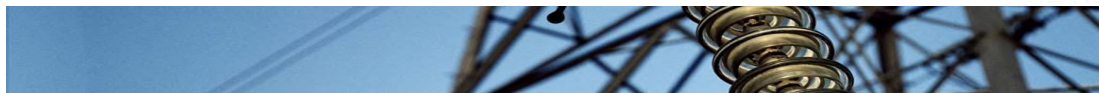
| No | Question | Response |
|----|---|---|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | (Re Operational Soak – Circuit Connectivity tests) <ul style="list-style-type: none"> - Recent EDT Circuit connectivity tests revealed an issue with NGC EBS Test environment - This reinforces the EDF requirement for Application Integration and Regression Testing (i.e. Run Business scenarios in an end-to-end with National Grid EBS Test system) - EDL-EBS Circuit connectivity tests planned 11/12/13 August 2015 - NGC Test Team have been flexible and responsive to our Testing requirements |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | (Re Operational Soak – EDL Access Validation) <ul style="list-style-type: none"> - Yes. We want to run the BM-EBS swap in a test environment initially - Then prove in production environment - A Service outage would be required during production checks, which would need to be agreed in advance with our Stations - The above would need to be managed around our Station manoeuvres and possible trips etc. - In the first instance we want to run the production test on units that are off-line for maintenance |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | (Re Operational Soak) <ul style="list-style-type: none"> - 1. Establish an FTP connection. - 2. Submit a test file manually. - 3. Use Application to submit a test file. First run in a test environment, then prove in production We would be interested in seeing a National Grid script for evaluation purposes. |



| No | Question | Response |
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| 4 | Do you have any concerns about this procedure? (section 2.2.2) | <p>(re Trial Runs)</p> <ul style="list-style-type: none"> - Each trial run in Production would require a service interruption, with the same caveat as above regarding planning around station manoeuvres. - Each Trial run has five sections – is this achievable in a working day? - There are only two weeks in the schedule for Trial Runs – it may be difficult to plan with so many Market Participants involved? Or is the proposal for each Market Participant to have a two-week Trial Run? - We would be concerned around the potential impact on our Dispatch system following a trial run and would want to ensure that this risk has been fully mitigated by previous testing activities - We would need to understand what instructions and the volume of instructions expected and the impact on our station control room staff and traders |
| 5 | Would you prefer to have other forms of communication instead of/ in addition to a teleconference during the trial runs? If so, please state and explain the benefits. (section 2.2.2) | <p>(Re Trial Runs)</p> <ul style="list-style-type: none"> - In principle, a teleconference would be fine. However, historically, we have had issues with following: <ul style="list-style-type: none"> A) Reached maximum number of participants B) Participants can hear NGC but NGC cannot hear participants C) Interference/background noise because people are not on mute - Would suggest that Lync would be a useful alternative - Web conferencing generally is not that reliable - Plus a summary email following completion of each Trial Run – results/actions/next steps etc |
| 6 | Is there any particular information you would like to have included in this feedback? (section 2.2.2) | <p>(Re Trial Runs – Grid feedback to EDF)</p> <ul style="list-style-type: none"> - Comparison of performance/throughput between BM and EBS - Comparison of Thermal vs. Nuclear station performance - ?? |

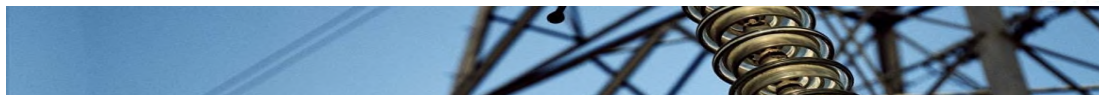


| No | Question | Response |
|----|--|--|
| 7 | How would you like to provide this feedback? (section 2.2.2) | (Re Trial Runs – EDF feedback to Grid) <ul style="list-style-type: none"> - Email - Confirmation whether particular information is required? - Teleconference if any issues need discussion? - |
| 8 | What support do you expect/require from National Grid for the EDT cutover? (section 2.2.3) | (Re Go-Live) <ul style="list-style-type: none"> - A detailed implementation plan - Flexibility on EDL timescales due to potential operational constraints at power stations (especially Nuclear stations) - Ability to rollback if there are any issues - Performance metrics might be a factor - Timing - Availability of NGC technical staff |
| | Are there any other comments that you wish you to make on this consultation? | <ul style="list-style-type: none"> - Documentation for Control Room staff and Traders (i.e. end-users) around EBS implementation and any expected differences in behaviour/procedures etc. |



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| Respondent: | Calon Energy IT |
| Company Name: | Calon Energy |
| Does this response contain confidential information? | No |

| No | Question | Response |
|----|---|--|
| 1 | What is your experience so far of the EDL and EDT tests processes and how would you like National Grid to improve it? (section 2.2.1) | We have completed market participant EDL and EDT connectivity testing with Grid for all stations The documentation provided prior to the testing was detailed and complete. Testing for stations connecting through Warwick was not completed on the first attempt due to a load balancer issue at National Grid, to improve this process it is recommended that basic network testing is performed prior to application tests being booked |
| 2 | Do you have any concerns about the procedure for EDL Access Validation? (section 2.2.1) | To ensure these tests do not interrupt our production systems we would like to be informed in advance of when the testing is to occur, this is to warn our IT helpdesk in case of any error being logged |
| 3 | At this stage have you considered already if you are planning either just establishing an FTP connection, or submitting a file manually, or using your production system to submit files automatically, or you prefer National Grid to provide you with a script to run the validation? (section 2.2.1) | We want to test end to end.manually I.E. connect via FTP, submit a file / files duplicating an existing submission and then check they match. |
| 4 | Do you have any concerns about this procedure? (section 2.2.2) | We would like ot be informed in advance of this trial run so we can monitor our EDL software for errors What will be the emergency/contingency procedure if the EBS system fails and we need to urgently communicate through EDL |
| 5 | Would you prefer to have other forms of communication instead of/ in addition to a teleconference during the trial | Happy with teleconferences (as long as the audience is small & disciplined) Also an email prior to commencement as a reminder to all participants and an email at the end |



| No | Question | Response |
|----|---|--|
| | runs? If so, please state and explain the benefits. (section 2.2.2) | to inform trial is complete |
| 6 | Is there any particular information you would like to have included in this feedback? (section 2.2.2) | Switch over time between test & live so we know which system is “live” so to speak We would like to confirm this data with our own EDL/EDT logs so this information should be as detailed as possible and timestamped |
| 7 | How would you like to provide this feedback? (section 2.2.2) | A questionnaire delivered market participants |
| 8 | What support do you expect/require from National Grid for the EDT cutover? (section 2.2.3) | I’d expect NGC to either be on the phone while the switch is made OR at least at the end of a line if there’s an issue |
| | Are there any other comments that you wish you to make on this consultation? | We are not currently subscribed to the National Grid EBS IT meeting communications, we would like to know how we can participate in these |