Minutes: NEG Technical Committee **Date:** Tuesday January 12th, 2016 **Time:** 09:00 – 16:00 **Place:** Copenhagen, Bella Sky January 15th, 2015	**NEG** Nordic Ediel Group

Present:
Jan Owe, Svenska kraftnät
Jari Hirvonen, Fingrid
Jon-Egil Nordvik, Statnett (Convenor)
Mats Elmér, Svenska kraftnät
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, Edisys (Secretary)

To (NTC):
Antti Niemi, Nord Pool Spot
Christian Odgaard, Energinet.dk
Eveliina Ishii, Nord Pool Spot
Hanna Blomfelt, Nord Pool Spot
Jan Owe, Svenska kraftnät
Jari Hirvonen, Fingrid
Jon-Egil Nordvik, Statnett (Convenor)
Kim Dahl, Statnett
Marja Eronen, Nord Pool Spot
Minna Arffman, Fingrid
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, Edisys (Secretary)

(NBS):
Mats Elmér, Svenska kraftnät
Minnakaisa Ahonen, eSett
Morten Hilger, Energinet.dk
Morten Torgalsbøen, Statnett
Niko Jauhiainen, eSett
Pasi Lintunen, Fingrid
Tuomas Lahti, eSett

CC:
Anne Stine Hop, Statnett
Oscar Ludwigs, Svenska kraftnät
Tor Bjarne Heiberg, Statnett
Tor Åge Halvorsen, NordPool

Appendixes:
Appendix A, "To remember list"
Appendix B, Overview of information exchange for the NBS metering and settlement phase
Appendix C, "BOM" (Byte Order Mark)
Appendix D, Changes to NBS schemas from Unicorn
Appendix E, Mail exchange between Eveliina and Ove
Error! Reference source not found.**, Error! Reference source not found.**

Error information from Basse.pptx

Attachment: Error information from Basse.pptx , see item 26.1, Addition of error codes to the Acknowledgement Document under AOB

**Basse-validations
Ove comments 2016**, see item 26.1, Addition of error codes to the Acknowledgement Document under AOB

--- Combined NBS and Ordinary NTC---

1   Approval of agenda
The agenda was approved with the following additions:
- Addition of error codes to the Acknowledgement Document, see 26.1 under AOB
- Deletion of regulations and aggregates to eSett, see 26.2 under AOB
- Update of PRODAT, need of "värmevärdesområde", see 26.3 under AOB

2   Approval of previous meeting minutes
The previous meeting minutes were approved.

3   "BOM" (Byte Order Mark)
See detailed description in Appendix C.

Jan informed that the BOM not should be sent when sending UTF-8 payload. Jan suggested not to use BOM in any UTF-8 file sent by eSett (or the Ediel portal), regardless of protocol – then you don't have to change anything when picking a file and sending it.

Action:
- Mats will, with the help of Jari, ask eSett (Unicorn) to configure Basse not to use BOM in any UTF-8 file sent by eSett
- Jan will ask "Systemstøtte for Ediel" to configure the Ediel portal not to use BOM in any UTF-8 file sent by the Ediel portal

4   WG-EDI will change Process Type A19 to require versioning in ESS!
Jon-Egil informed that WG-EDI will change the rules for usage of versioning in ESS:

3 Updates in chapter 5.2.2.2 on intraday trading 79
Table 3 outlines the characteristics that apply to the intraday trading; the change is related to 80 the number of unique documents for Process Type A19, i.e. the value is changed from 1 to N: 81

Table 3 – Different intraday process characteristics 82 Process Type	Name	Number of unique Documents	Information (values)	Schedule TimeInterval	Matching Period

A01**2**	Day Ahead	1	Current Position	Whole day	Whole day
A02	Intraday incremental	N (1 per gate)	Incremental values	Remaining hours	Remaining hours
A17	Schedule Day	1	Current Position	Whole day	Remaining hours
A18	Intraday total	N (1 per gate)	Current Position	Whole day	Remaining hours
A19	Intraday accumulated	N (1 per gate)	Incremental values	Whole day	Remaining hours

In the NEG BRSs we use the version in ESS document, however always with the value 1. Jon-Egil informed that the Nordic usage (always 1) is stated as an option in the IEC/CIM version of ESS.

Conclusion:
- We continue as is

5   NEG Common XML rules and recommendations

Should we add a text stating that "When resending a document, the previous quantities (or values, amounts etc.) will be overwritten, unless otherwise explicitly stated in a BRS or other documentation"?

There was a short discussion, what to do if anyone want to remove an earlier sent value. It is not possible to send ENTSO-E documents with no value in the QTY element.

Action:
- Ove will add the text and send the document on circulation for comments to NEG and NTC for 14 days before publication.
- Mats will investigate if there is a problem that we cannot send ENTSO-E documents without a quantity in a given position. I.e. if there is a need to withdraw an earlier sent quantity without sending a zero.

6   Overview of differences in the NBS implementations between the Nordic countries

Actions (homework) from previous meeting:
- Ove will make a memo showing the differences, seen from the actors (and not TSO/NPS) point of view

Ove had made a memo, which was distributed in November last year. There was no actions agreed regarding the memo, i.e. the task is closed.

7   Status for NBS XML schemas

Actions (homework) from previous meeting:
- We publish an October version based on the latest corrections. One additional update may be available in 2015. A fixed version should be published in January 2016.

The October version was published in the end of October 2015.

Unicorn had sent a request for changes, see Appendix D. The request for addition of a Role code **A18** (Grid Operator) was discussed and eSett (Unicorn) was advised to use **A09** Metered Data Aggregator instead.

Unicorn has sent a request to eSett for adding a Process Type on the Time Series level, to be able to send both Elspot and Elbas flows/trade in one document. NTC does not like the idea of adding an optional Process Type on Time Series level and advice Unicorn to use the alternative proposed, i.e. sending two documents, one with Elbas data and one with Elspot data.

There will not be any changes to the BRSs based on the request from Unicorn.

Conclusions:
- NTC advices Unicorn to use "**A09** Metered Data Aggregator" instead of "**A18** Grid Operator" when sending ENTSO-E Energy Account Report Document and NEG ECAN Publication document to the DSOs
- NTC advices Unicorn to send two documents, one with Elbas data and one with Elspot instead of sending both in one document, even if an actor asks for both in a request document

8 Status for NBS BRS (and related UserGuide)

Actions (homework) from previous meeting:
- Mats will inform Unicorn of the change of code for "Production units own consumption" from **Z68** to **B36.**
- Ove will update (code **B36** and "1-13 calendar days") and publish the BRS, UG, XML examples and XML schemas in the October version of NBS files.

Both action items had been done.

Questions:
- Should we remove the "red arrows" from "Overview of information exchange for the NBS metering and settlement phase", see **Appendix B**
  Answer: We will await approval of secondary legislation in Sweden.

- In chapter 5.7.2.1 we say:

  > Finland will send ESS Schedule Time Series in UTC+2, while the Nordic balance settlement will be done in UTC+1, i.e. the settlement will be based on ESS Schedule Time Series for two different days (the first hour of a "balancing day" will be sent the day before the last 23 hours of the "balancing day").

  Should this be rewritten according to chapter 2.3 in the NBS handbook?

  > The settlement structure management (e.g. retailer balance responsibility) will be complied with national legislations. In Finland the settlement structures will be managed in Eastern European Time (EET)/Eastern European Summer Time (EEST) and in Sweden the settlement structures will most likely be managed in Swedish Normal Time (pending final approval of the secondary law, final approval is expected before the end of 2015). In Norway there will be no changes compared to the current situation.

Answer: We will await approval of the secondary legislation in Sweden before updating the BRS – i.e. the item will be put on the next agenda.

- Should we add the following paragraph to the BRS?

    8.2 Usage of Resolution and Position
    The resolution of a time series period shall always be one hour, expressed according to ISO 8601, i.e. **PT1H** or **PT60M.**

    The time interval defined in the period class shall always be a multiple of its resolution.

    The position (ebIX® term: Sequence) must begin with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the Period.

    Further, Ove proposed to copy chapter 8 also to the NBS BRS for TSO/NPS communication. In the BRS for Master Data, we do not use Resolution and Position, hence no need to update this BRS.

Action:
- Ove will add the text above to the NBS BRSs and sent it for 14 days of commenting to NTC/NEG before publication.

9   Status for NBS BRS for TSO/NPS communication

Questions from Ove:
- Should we remove the "red arrows" from "Overview of information exchange for the NBS metering and settlement phase, see NBS BRS above
    Answer: See NBS BRS above

Questions from Jan:
    We got/have some questions related to the Publication document.
    1) In the BRS for the Nordic Trading system we have added four attributes to the Publication document:
        Maximum Price
        Minimum Price
        Average Price
        Direction
        All four are classified 0..1.
        But when should they be used? For which business types etcetera?

    From Eveliina:
        NPS is not planning to use these four elements in Day ahead API.

    Answer: Will not be used in the NBS BRSs – The question will be re-reviewed for the BRS for Nordic Trading System.

    2) In the NBS BRS for the NPS-TSO exchange we had a Business type called "Average balance price between MBAs". Is that related to the "Average price" described above? I.e. do we need both a

business type for average price and an attribute? Note that this Business type now is called "MBAs prices between Market Balance Areas".

From Eveliina:
> No opinion on this.

Answer: No change in the NBS BRSs

3) The list of Business types for prices in the NBS BRS for NPS-TSO exchange corresponds with table 18 in the NBS Handbook. But there are some differences, should they be explained?

From Eveliina:
> Prefer that eSett clarifies this usage if there are some differences.

Answer: The Business types were reviewed and one action item was given to Mats.

Action:
- Mats will verify if we need Business Type "**A87** Balancing energy price" in the NEG ECAN Publication Document.

4) One of the Business types is called "Main direction (no price)". But the attribute "Price" is required (classification [1]). Shouldn't that be corrected to 0..1 with a comment that Price is not used for Business type B22?

From Eveliina:
> Fixed / decided by Ove & Mats.

Answer: The BRS was corrected

NBS (Eveliina) had informed that eSett and NPS has agreed that Elbas/Elspot flow shall be sent as two time series and not netted. Jon-Egil informed that the TSO receive the flows as netted values today and that he want this principle also in the future (towards the TSOs). This will be verified by Mats.

Action:
- Mats will verify if arrow 7 to 10 in the sequence diagram in chapter 2.3 are valid
- Mats will discuss with Eveliina if the Elbas/Elspot flow really should be sent as two time series and not netted.

During this item Mats informed that the "Portfolio ID" not can be used. However, there was no time to discuss the item, hence the item was postponed.

10   Status for BRS for Master Data Documents (and related UserGuide)
Due to lack of time, the item was postponed.

11   Change request to HG

Due to lack of time, the item was postponed.

12   Status publication of Acknowledgement UG

Due to lack of time, the item was postponed.

13   Status for NPS implementation of NEG Documents

Due to lack of time, the item was postponed.

14   Status BRS for Nordic Operational System (RPMimp project)

Version 1.0 of BRS for Nordic Operational System was published November 18th 2015 (information from Ove not given at the meeting, due to lack of time). The item is closed.

15   Review of BRS for schedules

Due to lack of time, the item was postponed.

16   Review of comments to BRS for Nordic Trading System

Due to lack of time, the item was postponed.

17   Usage of Resolution and Position

Due to lack of time, the item was postponed.

18   Status CIM based Weather document

Due to lack of time, the item was postponed.

19   Status for MRs to ENTSO-E

Due to lack of time, the item was postponed.

20   Status for implementation of MADES

Continued actions (homework) from earlier meetings:
- Jon-Egil and Ove will draft a request to the NBS project, asking for implementation of the MADES SOAP header in all NBS exchanges, including the arguments for doing this. The request will be sent NTC for comments, or latest at the next NTC meeting.

21   Review of BRS for Determine Transfer Capacity

Update of the document is postponed until it is time to document new processes. Test is planned summer/autumn 2016. The documents will be based on CIM documents

22   ENTSO-E IEC/CIM schemas
Due to lack of time, the item was postponed.

23   Review of **www.ediel.org**
Due to lack of time, the item was postponed.

24   Information (if any)
No information

25   Next meeting
- Friday January 22nd from 13:00 to 15:00, Skype for business (Lync)
- Wednesday February 17th from 09:00 to 16:00, Arlanda
- Wednesday March 30th from 09:00 to 16:00, Oslo

26   AOB

26.1   *Addition of error codes to the Acknowledgement Document*
Unicorn had made an Excel sheet with a proposal for error codes to be used. As a response, Jan had made a PowerPoint presentation with some comments and Ove had added ENTSO-E Reason codes, for those errors where such codes exists, to the Excel sheet. Both documents are attached.

Conclusion:
- NTC Propose using the Error codes as a part of the Reason Text. And possibly add codes in version two of Basse, if agreed by the market.

26.2   *Deletion of regulations and aggregates to eSett*
Jon-Egil want to verify if we can use the principle that all regulations for a period must be sent in an update message and that the latest received message always is the valid. The reason being that Statnett today can send a document deleting all regulations for an actor. In addition Statnett can send a document to actors stating that there are no regulations, i.e. for information to the actor.

Conclusion:
- All regulations for a period must be sent in an update message and that the latest received message always is the valid. The BRS was updated.


26.3   *Update of PRODAT, need of "värmevärdesområde"*
Due to lack of time, the item was postponed

Appendix A   "To remember list"

Item #	Item	Description	Status
1.	EMFIP Configuration Market Document	Within EMFIP there is a document called Configuration Market Document. NTC don't think that the document can be use for any master data in the foreseeable future. However, the topic should be kept in mind and we might get questions why we didn't use it. At a later stage, NEG might do some work to influence the European standards.	TBD

Appendix B   Overview of information exchange for the NBS metering and settlement phase
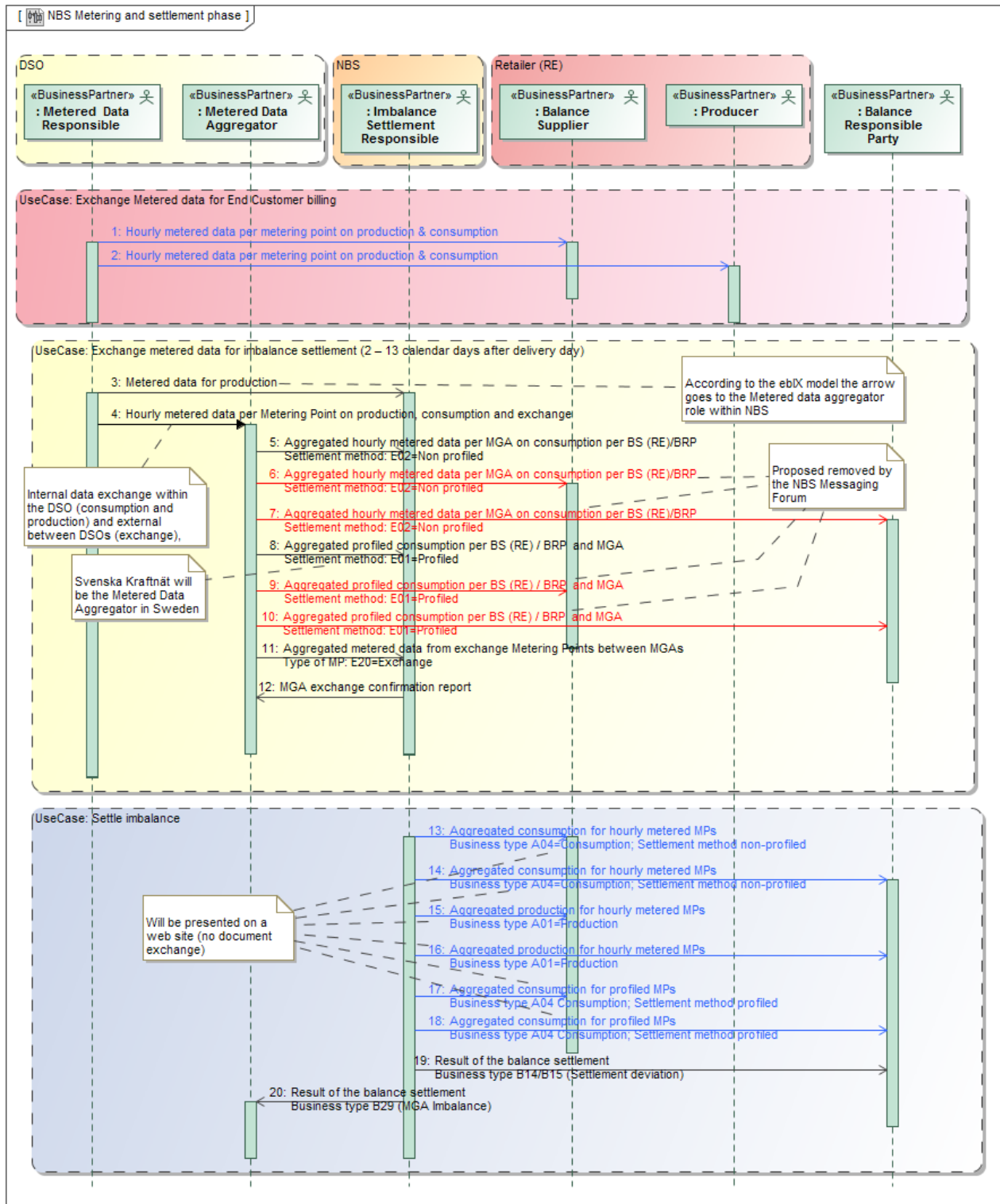
Appendix C   "BOM" (Byte Order Mark)

Hej och tack Szymon!
I write this in English since this also could be an NTC and an NBS issue.

According to RFC 3629 you should not (in cases like ours) use "BOM", Byte Order Mark.
See https://tools.ietf.org/html/rfc3629#section-6
Here you, for example, can read:
"A protocol SHOULD also forbid use of U+FEFF as a signature for
    those textual protocol elements for which the protocol provides
    character encoding identification mechanisms, when it is expected
    that implementations of the protocol will be in a position to
    always use the mechanisms properly."

And, for the sending of XML files we have in the Swedish user guide written that you always should specify the following in the MIME-part of SMTP messages
"Content-Type: application/xml; charset="utf-8""
See https://www.ediel.se/Portal/Document/2884, appendix A.2.2.

So, in the protocol we specify the encoding, and then you should not use the BOM according to the recommendation in RFC 3629.
However, as we know the Microsoft programs typically adds the BOM. Then BOM will sometimes be received when sending files to eSett (and between the actors).
So, we must be prepared for them, as we now have to be at the Ediel portal.
But, will eSett send files with the BOM character? It should not when using SMTP where we explicitly state the encoding in the MIME header.
However, I don't know what is stated for FTP, and I don't know what is stated for other files provided by eSett – will the BOM character be there for those files? Perhaps it will.
I will not suggest changing to UTF-16 or -32 – the files are big as they are already today.

So, I would like to be discussed and, possibly, decided that
* For SMTP, Byte Order Mark (BOM) should not be used (since we specify the "charset"), but handled if anyhow received by both eSett and the Ediel portal.
* For other protocols BOM will / or will not be used (to be decided) when files are sent from eSett, and that eSett will be able to receive both with and without BOM.
(We should be strict when sending, but forgiving when receiving.)

My suggestion would be not to use BOM in any UTF-8 file sent by eSett (or the Ediel portal), regardless of protocol – then you don't have to change anything when picking a file and sending it.

BR
Jan Owe
Ediel, Svenska kraftnät

Från: Szymon Andruchow [mailto:szymon.andruchow@statnett.no]
Skickat: den 19 oktober 2015 13:16
Till: Owe, Jan

Kopia: Statnett, Ediel
Ämne: RE: VL: Sending NBS-messages to Ediel-testportalen fails

Hei Jan
Jeg fikk denne saken av Hallgeir på fredag ettermiddag.
Det ser ut til at det er et problem med encoding.
Alle innkommende meldinger prosesseres av vår EDI server. Uthenting av vedleggene fra MIME mailene og encoding fra base 64 dekodingen gjøres der.
I forbindelse med EDIFACT bruker vi ISO-8859 til å tolke innholdet i vedleggene.
Det viser seg at kravet fra NBS er at innholdet i vedleggene skal bruke UTF-8 encoding, men EDI serveren vår leser alle meldingene likt dvs. med ISO-8859. I de fleste tilfellene blir det likt. Men UTF-8 har også mulighet til å sende Byte Order Mark (BOM) i filen og det er det som gjør at vi ikke klarer å tyde meldingene fra Empower og de får "Konverteringsfeil".
En rask løsning, slik at de kommer videre med testing, er at de prøver å sende uten BOM (slik de fleste gjør).

Vi ser på forskjellige alternativer for å løse dette på en riktig måte.
Jeg kommer tilbake med mer info.

Szymon

Appendix D   Changes to NBS schemas from Unicorn

- <u>ENTSO-E ERRP Planned Resource Schedule</u> : A08 (BRP) on ReceiverRole element needed.

- Limitation in ebIX® XSD when it comes on Resolution attribute.
  Currently only PT1H or PT60M resolution is available for usage by XSD, but since Information Service is able to return also time-aggregated data, we need to have possibility by XSD to use also these values:
     "P1Y" – for yearly aggregated data
     "P1M" – for monthly aggregated data
     "P7D" – for weekly aggregated data
      "P1D" – for daily aggregated data

- A18 (DSO) and A12 (RE) on ReceiverRole element in the <u>ENTSO-E Energy Account Report Document</u>

- <u>ENTSO-E ERRP Reserve Allocation Document</u>
     The problem with ProcessType is ok in new version of XSDs. But in this version we are not able to set combinations BusinessType A10 and ReasonType Z31.

- <u>NEG ECAN Publication document</u>. But we are not able to send following codes in the ReceiverRole parameter, since they are not allowed in the XSD
     "A12" – stands for Retailer (Balance Supplier)
     "A08" – stands for Balance Responsible Party
     "A18" – stands for Distribution System Operator (Grid Operator

Comments from Ove:
1. For NEG ESP Energy Account Report Document, Unicorn ask for Role code **A18** (Grid Operator) for the DSO. However, the Grid Operator is according to the Harmonised Role model "A party that operates one or more grids", i.e. the role that maintain the physical lines, transformers etc. My guess is that the role they should have used is the Grid Access Provider **A17** "A party responsible for providing access to the grid through an Accounting Point and its use for energy consumption or production to the Party Connected to the Grid."
2. The same comment applies to NEG ECAN Publication document as to NEG ESP Energy Account Report Document, i.e. I guess Role type **A17** should be used instead of **A18**

Appendix E   Mail exchange between Eveliina and Ove

Thank you for good comments. I have updated the BRSs with most of them, but I have some questions to some of them:

- Nordic Trading System
  - **Ove:** You say: "Figure 5, According to BRS for NBS / eSett (TSO-NPS) we are sending the documents directly to eSett, not through TSO. Should this be corrected accordingly?". However, when I look in the NBS BRS for NPS/TSO, I believe this arrow is valid for Sweden, see arrow 7 (BRPs and Traders trade in Elspot and Elbas) and arrow 9 (BRPs trade in Elspot and Elbas (optional)) in chapter 2.3
    Eveliina: Yes, in NBS specification this is defined as optional, but same is not written in Nordic trading system BRS.

  - **Ove:** Table 2, NPS Intraday system is not sending Publication Document to BRPs. Process flow is correct, but reference to Publication Document must be taken away from arrow 17 and 22. What is used today (what to replace)?
    Eveliina: Intraday system is using various formats, so my understanding is that this could be left blanc in the BRS document.

  - **Ove:** How about arrow 23 – Is the NEG ECAN Publication document used here?
    Eveliina: Same as above applies to this also.

  - **Ove:** Figure 18, NPS doesn't use SpotMarketBidDocument, AllocationResultDocument or PublicationDocument towards Trade Responsible party. Flow is correct, but reference to these documents must be removed. What is used today (what to replace)?
    Eveliina: Same as above applies to this also.