

NKS(18)1  
2018-02-19



## Minutes of the board meeting in Reykjavik 18 January 2018

Present: Sigurður M. Magnússon (Chair, IRSA), Anneli Hällgren (SSM), Charlotte Bro (DEMA), Jorma Aurela (TEM), Ole Harbitz (NRPA), Annelie Bergman (SSM), Astrid Liland (NRPA), Jens-Peter Lynov (DTU), Karin Andgren (Vattenfall), Mette Øhlenschläger (SIS), Nici Bergroth (Fennovoima), Petri Kinnunen (VTT), Tuuli Pyy (Fortum), Christian Linde (SSM), Kasper Andersson (DTU) and Finn Physant (meeting secretary, FRIT).

Apologies: Atle Valseth (IFE) and Tarja Ikäheimonen (STUK)

### 1 Opening

The Chair (and host) opened the meeting and welcomed the participants. Regrets had been received from Tarja Ikäheimonen, who is ill. The Chair asked Jorma Aurela to pass on greetings and the best wishes for her recovery from the board. Regrets had also been received from Atle Valseth. Special welcomes were given to Anneli Hällgren as owner and board member (replacing Eva Simic) and Tuuli Pyy from Fortum as an observer. Tuuli Pyy is in the program group for the NKS 2019 seminar that met in connection with the board meeting. The Chair thanked Eva Simic for her contributions to NKS.

### 2 Practical remarks

Practical remarks about the meeting were given by the Chair. Finn Physant was appointed meeting secretary.

### 3 Approval of the agenda

The agenda was approved.

#### 4 Minutes of last board meeting (Copenhagen, 8 June 2017)

The minutes were approved. Actions A to C noted in the appendix of the minutes of the last board meeting will be noted in parenthesis in these minutes when handled during this meeting.

#### 5 News since last board meeting

##### a. Report from the owners' group meeting

The Chair informed about the outcome of the owners meeting on 17 January:

1. The owners had reached a comprehensive agreement on costs for the next three years.
  - a. The annual fees of the PC's will be reduced by 50,000 DKK as of this year.
  - b. The annual fee of the Chair will be reduced by 50,000 DKK as of this year.
  - c. The fee of the Secretariat will be reduced by 2% annually, but no more than 10% total, starting with the new contract for 1 August 2018 – 31 July 2019.
2. The owners agreed to increase the funding of NKS-B by 250,000 DKK in 2018. The reduction in fees (for the PC's, the Chair and the Secretariat) will provide about 160,000 DKK and the rest will come from the reserve. The reserve will then be a little lower than previous years. The role of the reserve is to ensure that NKS can at any time meet financial obligations. The NKS owners are committed to ensure so if the very unlikely situation that the reserve is not sufficient occurs.
3. The owners had agreed that Sigurður will continue as Chair of NKS until the end of 2020.

These agreements provide stability in NKS for the next three years ensuring ample time for a thorough discussion and implementation of NKS future strategy and direction.

##### b. News from board members' organisations

The members informed each other about relevant news.

##### d. Administrative news

Finn Physant informed the board that the policy documents "This is NKS" and the folder from 2017 both are updated. A new folder will be published in 2018 shortly before the January 2019 seminar. The "Handbook for NKS applicants and activity leaders" version April 2016 is still valid.

Very positively it was noted that Karin Andgren had contacted SKB (the Swedish Nuclear Fuel and Waste Management Co.) and already before this meeting could announce that SKB for 2018 has signed up as a new NKS co-financier.

The board took note of the administrative news.

#### 6 NKS in the future

The Chair opened this meeting item by thanking for all inputs received concerning the future of NKS (Action C).

Nici Bergroth (as chairman of the WG on the PC activities) presented the report from the WG. He thanked the other participating members: Astrid Liland, Carsten Israelson (DEMA), Emma Palm (SSM) and Karin Andgren – and the Chair and Jorma Aurela as observers. Nici Bergroth then presented the clear conclusions of the WG.

The Chair thanked Nici Bergroth and the workgroup for their work.

Based on the conclusions of the WG and the received inputs over the NKS future by owners and board members the Chair presented the document "Proposals and suggestions from reflections over NKS future directions by owners and board members" dated 17 January 2018. The Chair suggested that this meeting item should focus on a thorough discussion of

proposals and suggestions in the document rather than the board members presenting their reflections. The board agreed to this.

All proposals and suggestions concerning policy and content of the NKS program were discussed and conclusions reached. A few will be discussed further at the 2018 June meeting. The document "Conclusions – NKS Board 18 January" is attached to these minutes as appendix A. - Actions from meeting item 6 are found in the highlighted conclusions in appendix A.

## 7 Financial status

Finn Physant presented the distributed material: Financial status report and financial programme specification, both dated 18 December 2017. At this date the reserve was estimated to approximately 800,000 DKK - in accordance with last year's budget decision of 18 January 2017. The Chair concluded that the financial status was as planned. – The board took note of the financial situation.

## 8 Agreements

The following four agreements were prepared for the board's decision:

- R-part programme manager 2018 with Strålsäkerhetsmyndigheten
- B-part programme manager 2018 with DTU Nutech
- Secretariat from 1 August 2018 to 31 July 2019 with FRIT and
- Auditing of the accounts for 2017 with Dansk Revision.

All these agreements were approved with the following additional conclusions:

- The presented draft programme manager agreements were both reduced from 510,000 DKK to 460,000 DKK
- The presented draft secretariat agreement was reduced from 675,000 DKK to 660,000 DKK.
- The draft auditing agreement was approved as presented.

## 9 R-part: status and new activities

Christian Linde made a presentation of the status of the ongoing R-part activities. Overall the work in NKS-R is progressing according to plan. All eight activities started in 2016 and earlier have been completed. During 2017: 14 NKS-R reports have been published on the NKS website (including the revised report from ATR-2015). Of the activities commencing in 2017: six activities are basically progressing on schedule. A delay has been announced by HYBRID. Travel assistance has been granted to one young scientist. One seminar (L3PSA) and one workshop (NORDEC) have been carried out in 2017. Poster presentation and workshop participation were made by FIREBAN in 2017. WRANC made a presentation at "Kärnteknikdagarna" and the PC's (NKS-R&B) made a presentation at "SSM's Strålsäkerhetsdagar" – also in 2017.

Christian Linde presented the evaluation results and funding recommendations for Cfp 2018. NKS-R received 15 proposals this year (5 continued and 10 new proposals), with a total funding request of 8396 kDKK. Three funding alternatives were presented based on the evaluations with a total budget equal to 3000 kDKK. After some discussions, the board favoured one of the funding alternatives in an elaborated form and agreed to fund the following six activities in 2018 (all amounts in kDKK):

BREDA-RPV	500
SPARC	600
FIREBAN	450
SITRON	600
SYNTAGMA	600
NORDEC	250

The total budget for these six activities is 3000 kDKK. The decision meets the funding requests from all activities except NORDEC. For NORDEC the approved funding is intended primarily as support for the workshop/seminar activities that are planned in 2018.

#### 10 B-part: status and new activities

Kasper Andersson presented a status report for ongoing activities. In an overall view the activities are progressing well. There are no delayed activities started before 2017. The activities from 2017 are reported to be carried out on schedule with some acceptable delays. Young scientist travel assistance has been granted to 4 scientists. Both NKS-B seminars/workshops planned in 2017 have been carried out: GAMMASPEC and NORDIC ICP.

Kasper Andersson presented the evaluation results and funding recommendation for CfP 2018 – a total of 17 (of these 4 are continued) proposals were received. The total amount requested was 7915 kDKK from a budget of 3250 kDKK. After some discussion the board agreed to fund the following activities in 2018 (all amounts in kDKK):

AUTOMORC	454
OPTIMETHOD	450
RADWORKSHOP	370
GAMMARAY	362
NORCO II	460
AVESOME	436
RADSHIELD	427
NANOD	291

The total budget for these 8 activities is 3250 kDKK. Especially it was decided that GAMMARAY could not expect automatic funding for the same activity year after year and that NKS does not expect a proposal for a gammaseminar in the 2019 CfP. The PC-B will inform the activity leader about this.

#### 11 Budget for 2018

Finn Physant presented a revised budget compared to the distributed budget proposal of 2 January 2018. This budget was based on the 2 January 2018 budget and revised according to the conclusions of the owners' meeting 17 January 2018. Besides this Nici Bergroth announced that Fennovoima raised their contribution with 750 EUR to a total of 10,750 EUR in 2018. - The budget approved by the board is attached to these minutes in appendix B.

## 12 NKS articles

Both PC's presented the status of the R and B articles, which both have been commented by the board. The plan is now to submit the articles for publishing in the spring of 2018.

Christian Linde will contact (one or more of) the journals:

- "Progress in Nuclear Energy"

- "Journal of Nuclear Engineering and Radiation Science"

- "Nuclear Engineering and Technology"

Kasper Andersson has chosen (and had a first positive feed back from) the "Elsevier Journal of Environmental Radioactivity".

Jorma Aurela asked for links to these articles when published on the NKS welcome website.

The secretariat will provide these links.

The PC's will report back about the articles to the board at its June meeting (Action A).

## 13 NKS R and B seminar 2019

The PC's reported about the progress of the seminar planning from the program committee. Key-note speaker Claire Cousins, Chairman of ICRP, had been contacted by the Chair. How to ensure more good speakers was discussed. The possibility of giving poster authors the chance of a short oral presentation was discussed.

Finn Physant presented the coordination group's first draft seminar budget, which was discussed by the board responding with a number of ideas. It was decided that there would be no video documentation of this seminar and it was decided to have a modest reception in the poster area.

The board decided that the seminar should be carried out during 2 days of the week 14-18 January 2019.

Annelie Bergman and Christian Linde will look into the possibility of SSM being formal buyer of the seminar venue on behalf of NKS.

Finn Physant will contact a seminar venue used earlier by NKS for a quotation.

The board supported the direction of the seminar planning as presented by the coordination group. The PCs will organize additional program committee meeting(s) and present an updated and more detailed seminar program at the June board meeting (Action B).

## 14 Information activities

Finn Physant informed the board about the status of the NKS information activities.

3 NewsFlashes and one NewsLetter have been distributed since the last board meeting including news on the last board meeting, CfP 2018, seminars, reports, young scientist travels etc. There is a list of more than 500 e-mail addresses, to which the electronic letters are sent. A new and updated version of the pamphlet "Nordic Nuclear Safety Research" will be produced in 2018.

## 15 Other issues

No other issues.

## 16 Next meeting

Next meeting will be held in Copenhagen (and probably in Kastellet) on 28 June 2018. The owners will meet on 27 June – also in Copenhagen. DEMA will host both these meetings. There will be a meeting for one hour after the board meeting for evaluators to discuss the evaluation process etc.

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### End of meeting

Thanks for a good meeting were expressed by the Chair.

Sigurður M. Magnússon  
Chairman

Finn Physant  
Meeting secretary

#### Appendices:

A: "Proposals and suggestions from reflections over NKS future directions by owners and board members" dated 17 January 2018 including "Conclusions – NKS Board 18 January"

B: Budget decision for 2018 dated 18 January

C: Actions from the board meeting

**Proposals and suggestions from reflections over NKS future directions by owners and board members.**

**Conclusions - NKS Board 18 January 2018.**

**Policy:**

**Length, number and funding of projects:**

**DEMA:**

- **Fund larger projects**, lasting up to three years. This would, other things equal, reduce the number of projects and thereby administration and would make it possible to fund Ph.D. projects in cooperation with research institutions, a step which could further enhance the quality of NKS' work.

**SSM:**

- One way of increasing the efficiency and thus use the funds better, could be to **let projects run on a longer term than one year**, thus avoiding some of the administration.

**SIS:**

- **Reduce the funding for each NKS-project** allowing more projects to receive funding.

**VTT**

- It might be reasonable to **concentrate on fewer topics** in NKS

**Conclusion:** Discussion reflected different views within the NKS Board. PC's to develop a discussion paper based on the discussion in consultation with the Chair. Draft paper to be circulated to board for comments in good time before June meeting. Decision at June meeting.

**Young researchers:**

**STUK:**

- More emphasis on **participation of young researchers** in projects when funding projects.

**SSM:**

- Also for giving the networking factor more impact, **we suggest that the criteria of participating young scientists systematically are valued higher.**

#### VTT:

- NKS could **profile itself more towards young scientists**. The criteria of young scientists should be more clearly stated.

**Conclusion:** Discussion reflected good agreement on the importance of active involvement of young scientists in NKS projects. Criteria of young scientists can come in play when ranking of projects is same/very similar i.e. the "yellow category" - fund if possible.

PC's to see if text in CfP can reflect this importance better. Proposal at June meeting.

#### Prioritized areas:

##### DEMA:

- Yearly or every second year each owner gives a short presentation of the main areas in which his or her organization needs additional knowledge. An example could be "How to analyze a NPP accident from fall out measurements". These presentations could serve as **strategic guidelines for projects to be selected for funding**; the possibility for researches to come up with brand new areas should, however, not be ruled out.

##### Fennovoima:

- **Prioritization of certain research areas/topics** depending on need or on a yearly basis based on input from end users.

**Conclusions:** The discussion reflected different views in the Board and that "prioritized areas" are implicit in our evaluation i.e. relevance for end users and mean ranking as well in final ranking. PC's, in consultation with the Chair, to develop a discussion paper taking into account the discussion at the board meeting. Draft paper to be circulated to board for comments in good time before June meeting.

#### Purpose of NKS.

##### DEMA:

- **Putting the purpose of the NKS a bit more precise**; maybe something along these lines: "to develop new knowledge and/or bringing existing new knowledge into the daily work for enhanced

nuclear safety and emergency management in the Nordic countries and doing so in a cost efficient way”

**Conclusion:** *for the owners to address.*

### **Evaluation of projects:**

#### **NRPA:**

- We suggest to **create a possibility for the evaluators to discuss** their use of the criteria and to “calibrate” against each other.
- We should discuss whether there is **a need for a more strict definition and evaluation process for the decom-projects**. Some of them, and possibly even more in the future, are difficult to decide where to evaluate and finance – R or B?

**Conclusion:** *Evaluation process should be same for all projects. A one hour meeting between the evaluators together or separately for R and B will be organized in the margins of the June board meeting.*

### **Visibility of NKS and NKS work**

#### **VTT:**

- **The reporting and report evaluation and acceptance of the work should be more visible in NKS.** The society does not make the best use of the obtained results at the moment. Highlights and achievements to be more visible. The wanted goals from NKS point of view could be emphasized more.
- **Visibility of NKS in European nuclear forums to be increased.** At the moment NUGENIA, SNETP, OECD NEA etc. are seen everywhere and even linked to each other. NKS is not so visible even if it is strongly linked with e.g. the SAFIR programme (and SAFIR itself is a well-known programme structure in Europe). But **this requires strategic decision from NKS whether we want to put NKS more on the frame or just keep it for ourselves.**

**Conclusion:** *There is an interest to enhance the visibility of NKS. The Communications group reporting to the chiefs will be asked to develop a draft communication strategy for NKS. Anneli Hällgren will be the contact between NKS board and the group. A few slides on NKS to be developed by PC´s for use at presentations of NKS projects at non NKS events.*

### **Number of countries participating in a project.**

## SSM:

- Today, there is a requirement that at least three countries support a project for it to be approved. Exceptions do occur however, when it comes to projects within nuclear safety. **We suggest these exceptions to be removed**, thus ensuring even more profits of networking to NKS and hereby improving the Nordic value.

**Conclusion:** Discussion reflected very different views within the board. Exceptions to remain.

## Division between NKS B and NKS R.

### VTT:

- **Critical evaluation of the division between NKS-B & -R.** It seems that in the future more and more topics may appear that could fit in either programme. Should the topical division between the programmes to be evaluated and perhaps redirected?

**Conclusion:** The discussion confirmed the growing importance of decommissioning and management of radioactive waste. PC's to develop this issue further before June board meeting.

## Normal scientific review procedures:

### DEMA:

- **Use normal scientific review procedures.** In the conclusion of the SSM report from January 2016 it says: "NKS lacks routines for sufficient safeguarding against occasional deficiencies in the quality and/or scientific relevance of projects" and on page 20: "Program managers also review reports, for compliance with public standards, rather than for a full review of technical or scientific quality."

**Conclusion:** The NKS board finds that the present evaluation process which is similar to that of EURATOM is appropriate and does not need to be changed.

## A higher priority to new cooperation constellations

### SSM:

- New criteria that emphasizes **new cooperation constellations** before constellations which has already received funding is another suggestion.

**Conclusion:** *The suggestion was discussed. No actions needed.*

### **Size of the NKS board:**

#### **Vattenfall:**

- Set a **funding threshold** for the minimum funding that is represented by one board member. Potential benefits from such a threshold is a smaller board and/or an increased funding.

**Conclusion:** *The suggestion was discussed – no action needed.*

### **Stop funding participation in projects:**

#### **DEMA:**

- **Stop funding participation in projects** – if projects are needed in our organizations, we should not be paid to participate in them. Maybe an exception to this could be funding of invited speakers. This could as a positive side effect mean that we could fund an additional number of projects.

**Conclusion:** *The suggestion was discussed. No action needed.*

### **Quality assurance:**

#### **Vattenfall:**

- **One final report per activity** (participating organisations are not allowed to send in separate final reports).

**Conclusion:** *The PC's will look at the wording of texts for applicants – maybe the CfP's and contracts could reflect this. The PC's will present proposal at the June board meeting.*

### **Reducing the number of contracts:**

#### **DEMA:**

- reduce the number of contracts by **issuing contracts with project leaders only**. If the project leaders occasionally need to have others to undertake tasks which require funding (typically persons not employed by

the NKS organizations), the project leaders should have the possibility of paying this within the project budget. This could reduce the administrative costs of NKS considerably and release funds for more projects.

**Conclusion:** *The number of contracts was discussed. No action needed.*

## Content.

### Decommissioning and management of radioactive waste:

#### DTU NUTEC:

- DTU Nutech wishes NKS to continue very much in the same way as today, although some **more activity on decommissioning** could be desired

#### IFE:

- **Waste management and decommissioning** should be highlighted as a separate area and not as it is today included in both NKS B and NKS R. This means that part of the budget for a new Waste area should be taken from NKS B and NKS R. The size of the budget can be discussed. To ensure a meaningful start it could be on, for example 700 kDDK.

#### SIS:

- More emphasis on **management of radioactive waste** from non-nuclear energy production

#### STUK:

- Programmes could be diversified into **waste management** and **non-proliferation**

**Conclusion:** *Discussion: requires an in depth discussion and consideration before a decision is made.*

*The discussion reflected the increasing importance of these topics.*

*PC's to develop further with interested board members and circulate a discussion paper in good time before June meeting.*

*This paper can possibly be contained in the paper on the division between the NKS B and R programmes.*

### Safety of research reactors:

#### IFE:

- **Safety at research reactors** should also be included in NKS R. Several of the projects today are relevant to both research reactors and nuclear power plants, but clarification of this in the mandate may lead to more project proposals.

**Conclusion:** *To be looked at and possibly made more clear – a proposal from IFE is welcomed.*

### **New NKS – B area: Research in nuclear applications of nuclear technology:**

#### **SIS**

- The future NKS-B program would be more robust in the future with a separate “bullet” for research in the medical area. Enlarging and focusing on specific **research in medical applications of nuclear technologies** to become a new NKS-B area has to be financed separately. A model for financing by the medical industry producing nuclear medicines similar to the NKS-model for the nuclear industry could be investigated.

**Conclusion:** *Proposal supported by the NKS board. SIS to develop further.*

### **More emphasis on Seminars/workshops.**

#### **IFE:**

- Seminars are a very good tool in this context (networking) and should be used to a greater extent in the future.

#### **GR:**

- Workshops with a specific focus are of particular importance (and could be used to a greater extent in the future.)

**Conclusion:** *WS's and Seminars are and will be an important area of NKS cooperation. Proposals for WS's and Seminars will continue to be evaluated in the same way as other proposals.*

### **Costs.**

**Proposals and suggestions related to costs were not addressed at the board meeting since the owners had at their meeting on 17 January 2018 reached a comprehensive agreement on costs for the next 3 years as reflected in the minutes of the board meeting ( agenda item 5 – report from the owners' meeting ).**

## General:

### IFE:

- There should be **a continuous process to reduce administrative costs**. Hence, there should be a new review of these costs to assess whether and how these can be reduced. It is important that most of the available funds are used in research.

### NRPA:

- The administrative costs could be analyzed and discussed in more detail to decide whether a **modest reduction is achievable already for the coming year**.

## Secretariat

### DEMA:

- Continue our efforts to find ways of **reducing the costs of the secretariat**; if nothing else is possible we could – as is being done these years in Danish state administration – we could introduce a 2 % cut each year over the next 4 – 5 years.

### NRPA:

- The Secretariat has served NKS in an excellent manner for many years. **The workload could probably be taken care of by one of the Nordic authorities**. NRPA could be a candidate for such a take-over. It is, however, impossible to judge the economic consequences without a thorough analysis. In addition, to decide such an approach only to “hide” costs is unacceptable.

## PC´s:

### NRPA:

- **The fee (for the PC´s) could, however, be negotiated with the organization** from which the PCs are recruited. Cost reduction might be a possibility when PCs are recruited from authorities´ organizations.

## Chair:

### DEMA:

- From 2019 make arrangements for **the chairmanship to rotate** between the owners for a period of 2 – 3 years and for **the cost of the chairmanship to be covered by the organization/country of the chairman**.

### NRPA:

- In the future, the **fee for the chairperson should be negotiated** with the mother organization (one of the authorities in N, DK, S or F?).

## Appendix B - NKS budget for 2018 - decision 18 January 2018

Budgets	Budget for 2018	Budget for 2018	Budget for 2017
	EUR	DKK	DKK
<b>R-part</b>			
Activities	402.960	3.000.000	3.100.000
Fee PC	61.787	460.000	510.000
Travels PC	6.716	50.000	50.000
Coordination/Young scientists' travel	6.716	50.000	50.000
<b>R total</b>	<b>478.180</b>	<b>3.560.000</b>	<b>3.710.000</b>
<b>B-part</b>			
Activities	436.540	3.250.000	3.100.000
Fee PC	61.787	460.000	510.000
Travels PC	6.716	50.000	50.000
Coordination/Young scientists' travel	6.716	50.000	50.000
<b>B total</b>	<b>511.760</b>	<b>3.810.000</b>	<b>3.710.000</b>
<b>Seminar 2019</b>			
Seminar 2019	13.432	100.000	0
<b>Seminar 2016 total</b>	<b>13.432</b>	<b>100.000</b>	<b>0</b>
<b>Common</b>			
Common various according to specification	26.864	200.000	200.000
<b>Common total</b>	<b>26.864</b>	<b>200.000</b>	<b>200.000</b>
<b>Others</b>			
Fee Secretariat	89.827	668.750	675.000
Fee Chairman incl. travels	57.758	430.000	480.000
Travels Secretariat	2.015	15.000	10.000
<b>Others total</b>	<b>149.599</b>	<b>1.113.750</b>	<b>1.165.000</b>
<b>TOTAL</b>	<b>1.179.835</b>	<b>8.783.750</b>	<b>8.785.000</b>
<b>Expected incomes according to app. 1</b>	<b>1.092.477</b>	<b>8.133.380</b>	<b>8.190.086</b>
<b>Surplus</b>	<b>-87.358</b>	<b>-650.370</b>	<b>-594.914</b>

Any deficits to be covered by the reserve available for the board, which according to the financial status report of 18 December 2017 is ca.:	807.686,00
Proposed budget for 2018	-650.370,48
Present reserve and surplus	157.315,52
Funding reserved for use in 2017, but not used, will amount to ca.:	160.000,00
Gain/Loss due to the development in exchange rates 2017-2018 ca.:	-190.000,00
Old reservations from before 2015, not claimed, amount to:	605.041,00
<b>Total reserve end of January 2018: ca. DKK:</b>	<b>732.356,52</b>
<b>Total reserve end of January 2018: ca. EUR:</b>	<b>98.370,23</b>

## Specification of "Common" for 2018

	2018	2018	2017
	EUR	DKK	DKK
<b>Common</b>			
Reports, materials etc.	2.519	18.750	26.250
Postage, fees	1.343	10.000	7.500
Equipment	0	0	5.000
Internet	9.402	70.000	70.000
Auditing, consulting	8.227	61.250	61.250
Information material	2.686	20.000	20.000
Various expenses	2.686	20.000	10.000
<b>Common total</b>	<b>26.864</b>	<b>200.000</b>	<b>200.000</b>

## Appendix 1 for budget decision for 2018

### Pledge for funding in 2018 - Incomes

	Proposal for 2018	Proposal for 2018	Actual for 2017
	EUR	DKK	DKK
SSM	462.218	3.441.165	3.541.265
TEM	350.000	2.605.715	2.602.040
BRS	50.370	375.000	375.000
GR	24.000	178.678	178.426
NRPA	81.301	605.280	654.560
<b>Total EUR / DKK</b>	<b>967.889</b>	<b>7.205.838</b>	<b>7.351.291</b>
SSM contribution SEK	4.550.000		
NRPA contribution NOK	800.000		
BRS contribution DKK	375.000		
	<b>EUR</b>	<b>DKK</b>	<b>DKK</b>
Fortum	27.000	201.012	195.153
TVO	27.000	201.012	195.153
Fennovoima	10.750	80.033	74.344
IFE	11.179	83.226	90.002
Forsmark	13.000	96.784	97.762
Ringhals	12.500	93.061	89.213
OKG	13.000	96.784	97.168
SKB	10.159	75.630	0
<b>Total EUR / DKK</b>	<b>124.588</b>	<b>927.542</b>	<b>838.795</b>
<b>Complete EUR / DKK</b>	<b>1.092.477</b>	<b>8.133.380</b>	<b>8.190.086</b>
IFE contribution NOK	110000		
SKB contribution SEK	100000		

### **Exchange rates 2017/18:**

NKS 2018:	
DKK	100,0000
EUR	7,4449
NOK	0,7566
SEK	0,7563
NKS 2017:	
SEK 2017	0,7783
EUR 2017	7,4344
NOK 2017	0,8182

## Appendix C

Actions from the board meeting  
(if nothing else is mentioned to be taken by the coordination group):

- A. Ref. item 6: Actions from meeting item 6 are found in the highlighted conclusions in appendix A.
- B. Ref. item 10: The PC-B will inform the activity leader about this.
- C. Ref. item 12: Jorma Aurela asked for links to these articles when published on the NKS welcome website. The secretariat will provide these links. The PC's will report back about the articles to the board at its June meeting.
- D. Ref. item 13: The PC's will organize additional program committee meeting(s) and present an updated and more detailed seminar program at the June board meeting.
- E. Ref. item 14: A new and updated version of the pamphlet "Nordic Nuclear Safety Research" will be produced in 2018.