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A8-0406/ 001-030

AMENDMENTS 001-030

by the Committee on Industry, Research and Energy

Report

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Euratom Research and Training programme 2021- 2025

A8-0406/2018

Proposal for a regulation (COM(2018)0437 – C8-0380/2018 – 2018/0226(NLE))

Amendment 1

Proposal for a regulation

Recital 1 a (new)

Text proposed by the Commission

Amendment

(1 a) The European Parliament should be consulted at all relevant steps during the implementation and evaluation of the Programme. The Council asked the European Parliament for its opinion on the Research and Training Programme of the European Atomic Energy Community for the period 2021-2025. However, since the ordinary legislative procedure does not apply under the Treaty establishing the European Atomic Energy Community, the European Parliament is not considered to be on an equal footing with the Council when adopting legislation relating to atomic energy. Given the European Parliament's role as a co-legislator regarding budgetary matters and in order to ensure the coherent design and implementation of the Union's Framework Programme for Research and Innovation, the Euratom Research and Training Programme should also be adopted by means of the ordinary

Amendment 2

Proposal for a regulation

Recital 2

Text proposed by the Commission

(2) Nuclear research can contribute to social well-being, economic prosperity **and environmental sustainability** by improving nuclear safety, security and radiation protection. Radiation protection research has led to improvements in medical technologies from which many citizens benefit and that research can now lead to improvements in other sectors such as industry, agriculture, environment and security. Equally important is the **potential** contribution of nuclear research to the long-term decarbonisation of the energy system in a safe, efficient and secure way.

Amendment

(2) Nuclear research can contribute to social well-being **and** economic prosperity by improving nuclear safety, security and radiation protection. **Nuclear research makes an important contribution to environmental sustainability and the fight to combat climate change by reducing the Union's dependence on imported energy, while** radiation protection research has led to improvements in medical technologies from which many citizens benefit and that research can now lead to improvements in other sectors such as industry, agriculture, environment and security. Equally important is the contribution of nuclear research to the long-term decarbonisation of the energy system in a safe, efficient and secure way.

Amendment 3

Proposal for a regulation

Recital 4

Text proposed by the Commission

(4) The Commission's Report on the interim evaluation of the 2014-18 Euratom Research and Training Programme (COM(2017) 697 final) provides a set of guiding principles for the Programme. These include: to continue supporting nuclear research focused on nuclear safety, safeguards, security, waste management, radiation protection and development of fusion; to further improve, together with beneficiaries, the organisation and management of the European Joint Programmes in the nuclear field; to

Amendment

(4) The Commission's Report on the interim evaluation of the 2014-18 Euratom Research and Training Programme (COM(2017) 697 final) provides a set of guiding principles for the Programme. These include: to continue supporting nuclear research focused on nuclear safety, **performance**, safeguards, security, **radioactive** waste management, radiation protection and development of fusion; to further improve, together with beneficiaries, the organisation and management of the European Joint

continue and reinforce the Euratom education and training actions for developing relevant competencies which underpin all aspects of nuclear safety, security and radiation protection; to further exploit synergies between Euratom programme and other thematic areas of the Union Framework Programme; and to further exploit synergies between direct and indirect actions of the Euratom programme.

Programmes in the nuclear field; to continue and reinforce the Euratom education and training actions for developing relevant competencies which underpin all aspects of nuclear safety, security and radiation protection *in order to ensure a high level of skills, in particular in the new generation of engineers*; to further exploit synergies between Euratom programme and other thematic areas of the Union Framework Programme; and to further exploit synergies between direct and indirect actions of the Euratom programme, *helping to ensure consistency and effectiveness throughout the Euratom programme.*

Amendment 4

Proposal for a regulation Recital 4 a (new)

Text proposed by the Commission

Amendment

(4a) Euratom waste management projects contribute to a better understanding of radioactive waste management issues in the Union, such as the safety of future geological disposal facilities, radioactive waste conditioning and the long-term behaviour of spent fuel in a landfill.

Amendment 5

Proposal for a regulation Recital 5

Text proposed by the Commission

Amendment

(5) The conception and design of the Programme is set against the need to establish a critical mass of supported activities. This is achieved by establishing a limited number of specific objectives focussed on safe use of nuclear fission for power and non-power applications,

(5) The conception and design of the Programme is set against the need to establish a critical mass of supported activities. This is achieved by establishing a limited number of specific objectives focussed on safe use of nuclear fission for power and non-power applications,

maintaining and developing necessary expertise, fostering fusion energy and supporting policy of the Union on nuclear safety, safeguards and security

maintaining and developing necessary expertise, fostering fusion energy and supporting policy of the Union on nuclear safety, safeguards and security, ***including the development of knowledge on safe, effective and cost-efficient decommissioning of installations which reach the end of their lifespan, an area in which provisions and investment is lagging behind.***

Amendment 6

Proposal for a regulation Recital 5 a (new)

Text proposed by the Commission

Amendment

(5a) The Programme is a crucial part of Union's efforts to maintain and enhance scientific and industrial leadership in the field of energy technologies. In order to support the safe operation of existing fission power and facilitate the decarbonisation of the power system, fission research should continue to form an integral part of the Euratom programme.

Amendment 7

Proposal for a regulation Recital 5 b (new)

Text proposed by the Commission

Amendment

(5b) The safe and secure use of nuclear energy and non-power applications of ionizing radiation, including nuclear safety and decommissioning, should be supported by means of structural cross-border inspections and the sharing of knowledge and best practices related to the safety of reactor systems and fuel cycles currently in use, especially in the case of nuclear facilities located in the vicinity of one or more borders between Member States.

Amendment 8

Proposal for a regulation

Recital 7

Text proposed by the Commission

(7) By supporting nuclear research, the Programme should contribute to achieving the objectives of the Horizon Europe - Framework Programme for Research and Innovation ('Horizon Europe') established by Regulation (EU) No [...] of the European Parliament and of the Council²⁰ and should facilitate implementation of the Europe 2030 strategy and strengthening of the European Research Area.

²⁰ Regulation (EU) No [...] of the European Parliament and of the Council of [...] establishing EU FP9 - the Framework Programme for Research and Innovation (2021-2027) and repealing Regulation (EU) No 1291/2013 (OJ [...]).

Amendment

(7) By supporting nuclear research, the Programme should contribute to achieving the objectives of the Horizon Europe - Framework Programme for Research and Innovation ('Horizon Europe') established by Regulation (EU) No [...] of the European Parliament and of the Council²⁰, ***in particular by promoting excellence and open science***, and should facilitate implementation of the Europe 2030 strategy and strengthening of the European Research Area.

²⁰ Regulation (EU) No [...] of the European Parliament and of the Council of [...] establishing EU FP9 - the Framework Programme for Research and Innovation (2021-2027) and repealing Regulation (EU) No 1291/2013 (OJ [...]).

Amendment 9

Proposal for a regulation

Recital 8

Text proposed by the Commission

(8) The Programme should seek synergies with Horizon Europe and other Union programmes, from their design and strategic planning, to project selection, management, communication, dissemination and exploitation of results, to monitoring, auditing and governance. With a view to avoiding overlaps and duplication and increasing the leverage of EU funding, transfers from other Union programmes to Horizon Europe activities can take place. In such cases they will

Amendment

(8) The Programme should seek synergies ***and a closer alignment*** with Horizon Europe and other Union programmes, from their design and strategic planning, to project selection, management, communication, dissemination and exploitation of results, to monitoring, auditing and governance. ***It is vital that the key principles of excellence and open science are maintained across programmes.*** With a view to avoiding overlaps and duplication and increasing the leverage of EU funding,

follow Horizon Europe rules.

transfers from other Union programmes to Horizon Europe activities can take place. In such cases they will follow Horizon Europe rules.

Amendment 10

Proposal for a regulation Recital 17 a (new)

Text proposed by the Commission

Amendment

(17a) The JRC provides support for standardisation, open access by Union scientists to individual nuclear facilities and training activities in areas such as nuclear guarantees, forensics or decommissioning.

Amendment 11

Proposal for a regulation Article 3 – paragraph 1 – point b

Text proposed by the Commission

Amendment

(b) to ***potentially*** contribute to the long-term decarbonisation of the energy system in a safe, efficient and secure way.

(b) to contribute to the long-term decarbonisation of the energy system in a safe, efficient and secure way.

Amendment 12

Proposal for a regulation Article 3 – paragraph 2 – point a

Text proposed by the Commission

Amendment

(a) improve the safe ***and*** secure use of nuclear energy and non-power applications of ionizing radiation, including nuclear safety, security, safeguards, radiation protection, safe spent fuel and radioactive waste management and decommissioning;

(a) improve the safe, secure ***and efficient*** use of nuclear energy and non-power applications of ionizing radiation, including nuclear safety, security, safeguards, radiation protection, safe spent fuel and radioactive waste management and decommissioning;

Amendment 13

Proposal for a regulation

Article 3 – paragraph 2 – point d

Text proposed by the Commission

(d) support the policy of the Community on nuclear safety, safeguards and security.

Amendment

(d) support the policy of the Community on nuclear safety, safeguards and security, ***including the development of knowledge on safe, effective and cost-efficient decommissioning of installations which reach the end of their lifespan.***

Amendment 14

Proposal for a regulation

Article 4 – paragraph 1

Text proposed by the Commission

1. The financial envelope for the implementation of the Programme shall be EUR 1 675 000 000 in current prices.

Amendment

1. The financial envelope for the implementation of the Programme shall be ***EUR 1 516 000 000 in 2018 prices*** (EUR 1 675 000 000 in current prices).

Amendment 15

Proposal for a regulation

Article 4 – paragraph 2 – subparagraph 1 – introductory part

Text proposed by the Commission

The ***indicative*** distribution of the amount referred to in paragraph 1 shall be:

Amendment

The distribution of the amount referred to in paragraph 1 shall be:

Amendment 16

Proposal for a regulation

Article 4 – paragraph 2 – subparagraph 1 – point a

Text proposed by the Commission

(a) ***EUR 724 563 000*** for fusion research and development;

Amendment

(a) ***43 %*** for fusion research and development;

Amendment 17

Proposal for a regulation

Article 4 – paragraph 2 – subparagraph 1 – point b

Text proposed by the Commission

(b) **EUR 330 930 000** for nuclear fission, safety and radiation protection;

Amendment

(b) **25 %** for nuclear fission, safety and radiation protection;

Amendment 18

Proposal for a regulation

Article 4 – paragraph 2 – subparagraph 1 – point c

Text proposed by the Commission

(c) **EUR 619 507 000** for direct actions undertaken by the Joint Research Centre.

Amendment

(c) **32 %** for direct actions undertaken by the Joint Research Centre.

Amendment 19

Proposal for a regulation

Article 4 – paragraph 2 – subparagraph 2

Text proposed by the Commission

The Commission may **not** deviate, within the annual budgetary procedure, from the **amount** referred to in paragraph 2 (c) of this Article.

Amendment

The Commission may deviate, within the annual budgetary procedure, from the **amounts** referred to in **the first subparagraph of** paragraph 2 of this Article **by a maximum of 10 %**.

Amendment 20

Proposal for a regulation

Article 5 – paragraph 1 – subparagraph 1 – point c – indent 3 a (new)

Text proposed by the Commission

Amendment

– **respect for the principles of the rule of law;**

Amendment 21

Proposal for a regulation Article 13 – paragraph 1

Text proposed by the Commission

(1) The recipients of the Programme funding shall acknowledge the origin and ensure the visibility **of the Community funding** (in particular when promoting the actions and their results) by providing coherent, effective and proportionate targeted information to multiple audiences, including the media and the public.

Amendment

(1) The recipients of the Programme funding shall acknowledge the origin and **indicate the origins of Union funding so as to** ensure the visibility **thereof** (in particular when promoting the actions and their results) by providing coherent, effective and proportionate targeted information to multiple audiences, including the media and the public.

Amendment 22

Proposal for a regulation Article 13 – paragraph 2

Text proposed by the Commission

(2) The Commission shall implement activities on information and communication relating to the Programme, and its actions, and results. Financial resources allocated to the Programme shall also contribute to the corporate communication of the political priorities of the Community, as far as they are related to the objectives referred to in Article 3.

Amendment

(2) The Commission shall implement activities on information and communication relating to the Programme, and its actions, and results **intended for both specialist recipients and the public.** Financial resources allocated to the Programme shall also contribute to the corporate communication of the political priorities of the Community, as far as they are related to the objectives referred to in Article 3.

Amendment 23

Proposal for a regulation Article 14 – paragraph 1

Text proposed by the Commission

1. Evaluations shall be carried out **in a timely manner** to feed into the decision-making process on the programme, its successor and other initiatives relevant to

Amendment

1. Evaluations shall be carried out **every two years** to feed into the decision-making process on the programme, its successor and other initiatives relevant to research

research and innovation.

and innovation.

Amendment 24

Proposal for a regulation

Article 14 – paragraph 2

Text proposed by the Commission

2. The *interim* evaluation of the Programme shall be carried out once there is sufficient information available about the implementation of the Programme, but no later than *three* years after the start of the programme implementation. It shall include an assessment of the long-term impact of previous Euratom Programmes and shall form the basis to adjust programme implementation, as appropriate.

Amendment

2. The *first* evaluation of the Programme shall be carried out once there is sufficient information available about the implementation of the Programme, but no later than *two* years after the start of the programme implementation. It shall include an assessment of the long-term impact of previous Euratom Programmes and shall form the basis to adjust programme *extensions and* implementation, as appropriate.

Amendment 25

Proposal for a regulation

Article 14 – paragraph 3

Text proposed by the Commission

3. At the end of the implementation of the Programme, but no later than *four* years after the end of the period specified in Article 1, a final evaluation of the Programme shall be carried out by the Commission. It shall include an assessment of the long-term impact of previous Programmes.

Amendment

3. At the end of the implementation of the Programme, but no later than *two* years after the end of the period specified in Article 1, a final evaluation of the Programme shall be carried out by the Commission. It shall include an assessment of the long-term impact of previous Programmes.

Amendment 26

Proposal for a regulation

Annex I – paragraph 2

Text proposed by the Commission

In order to achieve the specific objectives, the Programme will support cross-cutting activities that ensure synergy of research efforts in solving common challenges. Appropriate links and interfaces, such as joint calls, will be ensured with the Horizon Europe. Related research and innovation activities may also benefit from financial support provided by the Funds under Regulation [Common Provisions Regulation] *as far as* in line with *these Funds'* objectives and regulations.

Amendment

In order to achieve the specific objectives, the Programme will support cross-cutting activities that ensure synergy of research efforts in solving common challenges. Appropriate links and interfaces, such as joint calls, will be ensured with the Horizon Europe. Related research and innovation activities may also benefit from financial support provided by the Funds under Regulation [Common Provisions Regulation] *or other Union programmes and financial instruments, insofar as they are* in line with *the* objectives and regulations *of those Funds, programmes and instruments.*

Amendment 27

**Proposal for a regulation
Annex I – paragraph 4**

Text proposed by the Commission

The priorities of the work programmes are to be established by the Commission on the basis of its policy priorities, inputs from national public authorities and nuclear research stakeholders grouped in bodies or frameworks such as European technology platforms, associations, initiatives and technical forums for nuclear systems and safety, management of radioactive waste, spent nuclear fuel and radiation protection/low-dose risk, nuclear safeguards and security, fusion research, or any relevant organisation or forum of *nuclear* stakeholders.

Amendment

The priorities of the work programmes are to be established by the Commission on the basis of its policy priorities, inputs from national public authorities and nuclear research stakeholders grouped in bodies or frameworks such as European technology platforms, associations, initiatives and technical forums for *current and future* nuclear systems and safety, management of radioactive waste, spent nuclear fuel and radiation protection/low-dose risk, nuclear safeguards and security, fusion research, or any relevant organisation or forum of *relevant* stakeholders.

Amendment 28

**Proposal for a regulation
Annex I – paragraph 5 – point a – point 1**

Text proposed by the Commission

(1) Nuclear safety: safety of reactor systems and fuel cycles, in use in the Community or, to the extent necessary in order to maintain broad nuclear safety expertise in the Community, those reactor types and fuel cycles, which may be used in the future, focusing exclusively on safety aspects, including all aspects of the fuel cycle such as partitioning and transmutation.

Amendment

(1) Nuclear safety: safety of reactor systems and fuel cycles, in use in the Community or, to the extent necessary in order to maintain ***and develop*** broad nuclear safety expertise in the Community, those reactor types and fuel cycles, which may be used in the future, focusing exclusively on safety aspects, including all aspects of the fuel cycle such as partitioning and transmutation; ***Support for sharing information and best practices related to the safety of reactor systems and fuel cycles currently in use, especially in the case of nuclear facilities located in the vicinity of one or more borders between Member States.***

Amendment 29

**Proposal for a regulation
Annex I – paragraph 5 – point a – point 3**

Text proposed by the Commission

(3) Decommissioning: research for the development and evaluation of technologies for decommissioning and environmental remediation of nuclear facilities; support for sharing best practices and knowledge on decommissioning.

Amendment

(3) Decommissioning: research for the development and evaluation of technologies for decommissioning and environmental remediation of nuclear facilities; support for sharing best practices and knowledge on decommissioning, ***including knowledge sharing in the case of nuclear facilities located in the vicinity of one or more borders between Member States and by means of pooling resources and personnel in centres of excellence.***

Amendment 30

**Proposal for a regulation
Annex II – subheading 4 – table**

Text proposed by the Commission

Innovation impact pathway indicators

Amendment

Innovation impact pathway indicators

EU progress towards 3 % GDP due to Euratom programme

EU progress towards *research and development (R&D) spending target of* 3 % GDP due to *the* Euratom programme