



EUROPEAN PARLIAMENT

2009 - 2014

Committee on Industry, Research and Energy

2011/0400(NLE)

28.6.2012

AMENDMENTS 56 - 167

Draft report
Peter Skinner
(PE489.630v02-00)

on the proposal for a Council regulation on the Research and Training
Programme of the European Atomic Energy Community (2014-2018)
complementing Horizon 2020 - The Framework Programme for Research and
Innovation

Proposal for a regulation
(COM(2011)0812 – C7-0009/2012 – 2011/0400(NLE))

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PE492.642v01-00

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United in diversity

EN

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Amendment 56
Jean-Pierre Audy

Draft legislative resolution
Paragraph 1

Draft legislative resolution

1. Approves the Commission proposal as amended;

Amendment

1. **Endorses** the Commission proposal as amended;

Or. fr

Amendment 57
Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Citation 1 a (new)

Text proposed by the Commission

Amendment

– *having regard to the Treaty on the Functioning of the European Union, and in particular Articles 8, 13, 173(3), 182(1) and 194 thereof,*

Or. en

Amendment 58
Michèle Rivasi
on behalf of the Verts/ALE Group

Draft legislative resolution
Citation 2

Draft legislative resolution

– *having regard to Article 7 of the Euratom Treaty, pursuant to which the Council consulted Parliament (C7-0009/2012),*

Amendment

– *having regard to the Treaty on the Functioning of the European Union (TFEU), and in particular Articles 8 and 194 thereof,*

Amendment 59

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 1

Text proposed by the Commission

(1) One of the aims of the European ***Atomic Energy Community (hereinafter the ‘Community’)*** is to contribute to the raising of the standard of living in the Member States by, inter alia, promoting and facilitating ***nuclear*** research in the Member States and complementing it by carrying out a Community research and training programme.

Amendment

(1) One of the aims of the European ***Union*** is to contribute to the raising of the standard of living in the Member States by, inter alia, promoting and facilitating research in the Member States and complementing it by carrying out a Community research and training programme.

Amendment 60

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 1 a (new)

Text proposed by the Commission

Amendment

(1a) Since the Treaty establishing the European Atomic Energy Community did not provide Parliament with co-decision powers in relation to nuclear matters, it is crucial that a new legal base applies to legislations in the nuclear field.

Amendment 61

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 2

Text proposed by the Commission

(2) Nuclear research can contribute to ***social and economic prosperity and environmental sustainability by improving*** nuclear ***safety***, security and radiation protection. ***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

(2) Nuclear research can contribute to nuclear security and radiation protection.

Or. en

Amendment 62

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 3

Text proposed by the Commission

(3) By ***supporting*** nuclear research the Research and Training Programme of the Community (hereinafter the ‘Euratom Programme’) will contribute to achieving objectives of the ‘Horizon 2020’ Framework Programme for Research and Innovation established by Regulation (EU XX/XXXX of [...])⁵ (hereinafter ‘Horizon 2020 Framework Programme’) and facilitate implementation of the Europe 2020 strategy and the creation and operation of the European Research Area.

Amendment

(3) ***Transferring some of the financial envelope from*** nuclear research ***to the Framework Programme for Research and Innovation, the Research and*** Training Programme of the Community (hereinafter the ‘Euratom Programme’) will contribute to achieving objectives of the ‘Horizon 2020’ Framework Programme for Research and Innovation established by Regulation (EU XX/XXXX of [...])⁵ (hereinafter ‘Horizon 2020 Framework Programme’) and facilitate implementation of the Europe 2020 strategy and the creation and operation of the European Research Area.

Or. en

Amendment 63

Alejo Vidal-Quadras, Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation

Recital 3

Text proposed by the Commission

(3) By supporting nuclear research the Research and Training Programme of the Community (hereinafter the ‘Euratom Programme’) will contribute to achieving objectives of the ‘Horizon 2020’ Framework Programme for Research and Innovation established by Regulation (EU XX/XXXX of [...])⁵ (hereinafter ‘Horizon 2020 Framework Programme’) **and** facilitate implementation of the Europe 2020 strategy and the creation and operation of the European Research Area.

Amendment

(3) By supporting nuclear research, the Research and Training Programme of the Community (hereinafter the ‘Euratom Programme’) will contribute to achieving objectives of the ‘Horizon 2020’ Framework Programme for Research and Innovation established by Regulation (EU XX/XXXX of [...])⁵ (hereinafter ‘Horizon 2020 Framework Programme’), facilitate implementation of the Europe 2020 strategy and the creation and operation of the European Research Area **and help to implement the SET-Plan.**

Or. en

Amendment 64

Alejo Vidal-Quadras, Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation

Recital 3 a (new)

Text proposed by the Commission

Amendment

(3a) The Euratom Programme will support the Sustainable Nuclear Energy Technology Initiative and its Platform, the Implementing Geological Disposal Technology Platform and the Multidisciplinary European Low Dose Initiative, launched under the Seventh Euratom Programme.

Or. en

Amendment 65

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 4

Text proposed by the Commission

(4) **Notwithstanding the potential impact of nuclear energy on energy supply and economic development, severe nuclear accidents may** have the potential to endanger human health. Therefore, nuclear safety and, where appropriate, security aspects should be given the greatest possible attention in the **Euratom** Research and Training Programme.

Amendment

(4) **Severe nuclear accidents, nuclear proliferation and terrorism** have the potential to endanger human health **and the environment**. Therefore, nuclear safety and, where appropriate, security aspects should be given the greatest possible attention in the Research and Training Programme.

Or. en

Amendment 66

Jean-Pierre Audy

Proposal for a regulation

Recital 4

Text proposed by the Commission

(4) Notwithstanding the potential impact of nuclear energy on energy supply and economic development, severe nuclear accidents may have the potential to endanger human health. Therefore, nuclear safety and, where appropriate, security aspects should be given the greatest possible attention in the Euratom Research and Training Programme.

Amendment

(4) Notwithstanding the potential impact of nuclear energy on energy supply and economic development, severe nuclear accidents may have the potential to endanger human health. Therefore, nuclear safety and, where appropriate – **as part of the work of the Joint Research Centre (JRC)** – security aspects should be given the greatest possible attention in the Euratom Research and Training Programme.

Or. fr

Justification

R&D in the field of nuclear security does not fall within Euratom's remit. Only the Joint Research Centre is authorised to work on nuclear-security-related matters. This should be made clear.

Amendment 67

Peter Skinner, Jan Březina

Proposal for a regulation

Recital 4 a (new)

Text proposed by the Commission

Amendment

(4a) Notwithstanding the potential impact of nuclear energy on energy supply and economic development, severe nuclear accidents, nuclear proliferation and malevolent acts including nuclear terrorism may have the potential to endanger human health. Therefore, nuclear safety and, where appropriate, security aspects should be given the greatest possible attention in the Euratom Programme. Attention must also be paid to third countries that border the Union and cross-border aspects of nuclear safety that underline the Union's added value.

Or. en

Amendment 68

Jan Březina, Peter Skinner, Evžen Tošenovský

Proposal for a regulation

Recital 4 a (new)

Text proposed by the Commission

Amendment

(4a) Three major European cooperative initiatives in nuclear science and technology were launched. They are the Sustainable Nuclear Energy Technology Platform (SNETP) and the NUGENIA

association, the Implementing Geological Disposal Technology Platform (IGDTP) and the Multidisciplinary European Low Dose Initiative (MELODI). Both SNETP and IGDTP correspond with SET-Plan objectives.

Or. en

Amendment 69

Jan Březina, Peter Skinner, Evžen Tošenovský

Proposal for a regulation

Recital 4 b (new)

Text proposed by the Commission

Amendment

(4b) The European Sustainable Nuclear Industrial Initiative (ESNII) targets the deployment of Gen-IV Fast Neutron Reactors with closed fuel cycle by 2040. It includes three major projects: the ASTRID prototype (sodium cooled), the ALLEGRO demonstrator (gas cooled) and the MYRRHA technology pilot plant (lead cooled).

Or. en

Amendment 70

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 5

Text proposed by the Commission

Amendment

(5) As all Member States have nuclear installations **or** make use of radioactive materials particularly for medical purposes, the Council has recognised in its conclusions of 2 December 2008 the continuing need for skills in the nuclear

(5) As all Member States have nuclear installations, make use of radioactive materials particularly for medical purposes **or might be affected by radiation fallouts**, the Council has recognised in its conclusions of 2 December 2008 the

field, in particular through appropriate education and training linked with research and coordinated at Community level.

continuing need for skills in the nuclear field, in particular *in the field of radioprotection* through appropriate education and training linked with research and coordinated at Community level.

Or. en

Amendment 71

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 6

Text proposed by the Commission

(6) By *signing the Agreement on the Establishment of the ITER International Fusion Energy Organisation for the Joint Implementation of the ITER Project*, the *Community* has *undertaken to participate in ITER construction and its future exploitation. The Community contribution is managed through the ‘European Joint Undertaking for ITER and the Development of Fusion Energy’ (hereinafter ‘Fusion for Energy’), established by Council Decision of 27 March 2007. The* activities of Fusion for Energy, including ITER, are to be regulated by a separate legislative act.

Amendment

(6) By *proposing to finance* the ITER *project outside* the *2014-2020 Multinational Financial Framework (MFF)*, the *Commission* has *suggested that* the activities of Fusion for Energy, including ITER, are to be regulated by a separate legislative act.

Or. en

Amendment 72

Andrzej Grzyb, Jerzy Buzek, Jolanta Emilia Hibner, Lena Kolarska-Bobińska, Bogdan Kazimierz Marcinkiewicz, Krišjānis Kariņš, Marian-Jean Marinescu, Markus Pieper

Proposal for a regulation

Recital 6

Text proposed by the Commission

(6) By signing the Agreement on the Establishment of the ITER International Fusion Energy Organisation for the Joint Implementation of the ITER Project, the Community has undertaken to participate in ITER construction and its future exploitation. The Community contribution is managed through the ‘European Joint Undertaking for ITER and the Development of Fusion Energy’ (hereinafter ‘Fusion for Energy’), established by Council Decision of 27 March 2007. The activities of Fusion for Energy, including ITER, are to be regulated by a separate legislative act.

Amendment

(6) By signing the Agreement on the Establishment of the ITER International Fusion Energy Organisation for the Joint Implementation of the ITER Project, the Community has undertaken to participate in ITER construction and its future exploitation. The Community contribution is managed through the ‘European Joint Undertaking for ITER and the Development of Fusion Energy’ (hereinafter ‘Fusion for Energy’), established by Council Decision of 27 March 2007. The activities of Fusion for Energy, including ITER, are to be regulated by a separate legislative act.

Funding for the ITER Project should be secured through separate financial mechanism.

Or. en

Amendment 73

Marisa Matias

Proposal for a regulation

Recital 6

Text proposed by the Commission

(6) By signing the Agreement on the Establishment of the ITER International Fusion Energy Organisation for the Joint Implementation of the ITER Project, the Community has undertaken to participate in ITER construction and its future exploitation. The Community contribution is managed through the ‘European Joint Undertaking for ITER and the Development of Fusion Energy’ (hereinafter ‘Fusion for Energy’), established by Council Decision of 27 March 2007. The activities of Fusion for Energy, including ITER, are to be

Amendment

(6) By signing the Agreement on the Establishment of the ITER International Fusion Energy Organisation for the Joint Implementation of the ITER Project, the Community has undertaken to participate in ITER construction and its future exploitation. The Community contribution is managed through the ‘European Joint Undertaking for ITER and the Development of Fusion Energy’ (hereinafter ‘Fusion for Energy’), established by Council Decision of 27 March 2007. The activities of Fusion for Energy, including ITER, are to be

regulated by a separate legislative act.

regulated by a separate legislative act *and not included in the Multiannual Financial Framework (MFF)*.

Or. en

Amendment 74

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 7

Text proposed by the Commission

Amendment

(7) For fusion to become a credible option for commercial energy production, it is, firstly, necessary to successfully and timely complete the construction of ITER and start its operation. Secondly it is necessary to establish an ambitious, yet realistic roadmap towards the production of electricity by 2050. Reaching those goals requires the European fusion programme to be redirected. A stronger focus should be placed on the activities in support to ITER. Such rationalisation should be achieved without jeopardising the European leadership of the fusion scientific community.

deleted

Or. en

Amendment 75

Jean-Pierre Audy

Proposal for a regulation

Recital 8

Text proposed by the Commission

Amendment

(8) The Joint Research Centre (JRC) should continue to provide independent customer-driven scientific and

(8) The Joint Research Centre (JRC) should continue to provide independent customer-driven scientific and

technological support for the formulation, development, implementation and monitoring of Community policies, in particular in the field of nuclear safety and security research and training.

technological support for the formulation, development, implementation and monitoring of Community policies, in particular in the field of nuclear safety and security research and training. ***It must make this contribution subject to guidelines to be adopted by the EU institutions, particularly in the light of the stress tests on nuclear power plants.***

Or. fr

Justification

The JRC's role is to work in support of EU policies, in this case on safety and security matters. It is therefore legitimate to wait for guidelines from the EU institutions, following the stress tests on nuclear power plants, on the JRC's work programme.

Amendment 76

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 10

Text proposed by the Commission

(10) While it is for each Member State to choose whether or not to make use of nuclear power, the ***role of the Union is to develop, in the interest of all its Member States***, a framework to support joint cutting-edge research, knowledge creation and knowledge preservation on nuclear ***fission technologies, with special emphasis on*** safety, security, radiation protection and non-proliferation. That requires independent scientific evidence, to which the JRC can make a key contribution. That has been recognised in the Commission Communication 'Europe 2020 Flagship Initiative Innovation Union'⁹, in which the Commission stated its intention to strengthen scientific evidence for policy making through the

Amendment

(10) While it is for each Member State to choose whether or not to make use of nuclear power, the Union ***should continue to provide*** a framework to support joint cutting-edge research, knowledge creation and knowledge preservation on nuclear safety, security, radiation ***measurements and*** protection and non-proliferation. That requires independent scientific evidence, to which the JRC can make a key contribution. That has been recognised in the Commission Communication 'Europe 2020 Flagship Initiative Innovation Union'⁹, in which the Commission stated its intention to strengthen scientific evidence for policy making through the JRC. The JRC proposes to respond to that challenge by focusing its nuclear safety, ***in***

JRC. The JRC proposes to respond to that challenge by focusing its nuclear safety and security research *on the Union's policy priorities*.

particular during decommissioning and emergency preparedness, and security research.

Or. en

Amendment 77
Jean-Pierre Audy

Proposal for a regulation
Recital 10

Text proposed by the Commission

(10) While it is for each Member State to choose whether or not to make use of nuclear power, the role of the Union is to develop, in the interest of all its Member States, a framework to support joint cutting-edge research, knowledge creation and knowledge preservation on nuclear fission technologies, with special emphasis on safety, security, radiation protection and non-proliferation. That requires independent scientific evidence, to which the JRC can make a key contribution. That has been recognised in the Commission Communication ‘Europe 2020 Flagship Initiative Innovation Union’, in which the Commission stated its intention to strengthen scientific evidence for policy making through the JRC. The JRC proposes to respond to that challenge by focusing its nuclear safety and security research on the Union's policy priorities.

Amendment

(10) While it is for each Member State to choose whether or not to make use of nuclear power, the role of the Union is to develop, in the interest of all its Member States, a framework to support joint cutting-edge research, knowledge creation and knowledge preservation on nuclear fission technologies, with special emphasis on safety, security, radiation protection and non-proliferation. That requires independent scientific evidence, to which the JRC can make a key contribution. That has been recognised in the Commission Communication ‘Europe 2020 Flagship Initiative Innovation Union’, in which the Commission stated its intention to strengthen scientific evidence for policy making through the JRC. The JRC proposes to respond to that challenge by focusing its nuclear safety and security research on the Union's policy priorities. ***The precise nature of this research must be determined subject to guidelines to be adopted by the EU institutions, particularly in the light of the stress tests on nuclear power plants.***

Or. fr

Justification

The JRC's role is to work in support of EU policies, in this case on safety and security matters. It is therefore legitimate to wait for guidelines from the EU institutions, following the stress tests on nuclear power plants, on the JRC's work programme.

Amendment 78
Jean-Pierre Audy

Proposal for a regulation
Recital 10 a (new)

Text proposed by the Commission

Amendment

(10a) Because Europe's citizens must remain at the core of the EU-level discussions, the European Parliament should be more broadly involved in the deliberations and the decisions taken about the Research and Training Programme of the European Atomic Energy Community.

Or. fr

Justification

It is time to involve the European Parliament, as the citizens' representative, to the greatest possible extent.

Amendment 79
Jean-Pierre Audy

Proposal for a regulation
Recital 11

Text proposed by the Commission

Amendment

(11) With the aim of deepening the relationship between science and society and reinforcing public confidence in science, the Euratom Programme should favour an informed engagement of citizens and civil society on research and

(11) With the aim of deepening the relationship between science and society and reinforcing public confidence in science, the Euratom Programme should favour an informed engagement of citizens and civil society on research and

innovation matters by promoting science education, by making scientific knowledge more accessible, by developing responsible research and innovation agendas that meet citizens' and civil society's concerns and expectations and by facilitating their participation in the Euratom programme activities.

innovation matters by promoting science education, by making scientific knowledge more accessible, by developing responsible research and innovation agendas that meet citizens' and civil society's concerns and expectations and by facilitating their participation in the Euratom programme activities. ***This informed engagement by citizens on matters connected with the Euratom programme implies closer involvement of the European Parliament, which represents Europe's citizens.***

Or. fr

Amendment 80

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Recital 13

Text proposed by the Commission

(13) The Euratom Programme should contribute to the attractiveness of the research profession in the Union. Adequate attention should be paid to the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers¹⁰, together with other relevant reference frameworks defined in the context of the European Research Area, while respecting their voluntary nature.

Amendment

(13) The Euratom Programme should contribute to the attractiveness of the research profession in the Union, ***in particular in the view of skill shortage within decommissioning and radioprotection and measurements.*** Adequate attention should be paid to the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers¹⁰, together with other relevant reference frameworks defined in the context of the European Research Area, while respecting their voluntary nature.

Or. en

Amendment 81

Vladimír Remek

Proposal for a regulation
Recital 13

Text proposed by the Commission

(13) The Euratom Programme should contribute to the attractiveness of the research profession in the Union. Adequate attention should be paid to the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers¹⁰, together with other relevant reference frameworks defined in the context of the European Research Area, while respecting their voluntary nature.

Amendment

(13) The Euratom Programme should contribute **more substantially** to the attractiveness of the research profession in the Union. Adequate attention should be paid to the European Charter for Researchers and Code of Conduct for the Recruitment of Researchers¹⁰, together with other relevant reference frameworks defined in the context of the European Research Area, while respecting their voluntary nature.

Or. cs

Amendment 82
Konrad Szymański, Angelika Niebler

Proposal for a regulation
Recital 15

Text proposed by the Commission

(15) Research and innovation activities supported by the Euratom Programme **should** respect **fundamental** ethical principles. The opinions of the European Group on Ethics in Science and New Technologies should be taken into account. Research activities should also take into account Article 13 of the TFEU and reduce the use of animals in research and testing, **with a view to ultimately replacing animal use**. All activities should be carried out ensuring a high level of human health protection.

Amendment

(15) Research and innovation activities supported by the Euratom Programme **shall** respect **the** ethical principles. The opinions of the European Group on Ethics in Science and New Technologies should be taken into account. Research activities should also take into account Article 13 of the TFEU and **replace, reduce and refine** the use of animals in research and testing. All activities should be carried out ensuring a high level of human health protection.

Or. en

Justification

The use of the word “should” is not sufficient, as the expression just refers to an opportunity, while an obligation must be clearly stated. Article 13 TFEU is better defined with reference to the 3 R’s of reduction, refinement and replacement; in this way a better coherence with Article 19(10) of the proposal on the rules for participation and dissemination is also ensured. The addition of the word “the” before the words “ethical principles” is necessary to create coherence with Recital 24 of the Regulation establishing the Programme.

Amendment 83

Vladko Todorov Panayotov

Proposal for a regulation

Recital 16

Text proposed by the Commission

(16) A greater impact should also be achieved by combining the Euratom Programme and private sector funds within public-private partnerships in key areas where research and innovation could contribute to Union's wider competitiveness goals. Particular attention should be given to the involvement of small and medium-sized enterprises.

Amendment

(16) A greater impact should also be achieved by combining the Euratom Programme and private sector funds within public-private partnerships in key areas where research and innovation could contribute to Union's wider competitiveness goals. Particular attention should be given to the involvement of small and medium-sized enterprises ***(SMEs). The need to increase the uptake of available community funding by SMEs should be applicable to those SMEs working in nuclear research as it does in other fields, while taking all measures to prevent possible information leaks and breaches in the operating mode.***

Or. en

Justification

All international attempts at combating nuclear proliferation trafficking should be supported. Additional care has to be taken, because of the smaller size and bigger number of SMEs.

Amendment 84

Jean-Pierre Audy

Proposal for a regulation
Recital 25

Text proposed by the Commission

(25) Article 7 of the Euratom Treaty entrusts the Commission with the responsibility of carrying out the Euratom Programme. For the purposes of implementing the Euratom Programme, except its direct actions, the Commission should be assisted by a consultative committee of Member States to ensure appropriate coordination with national policies in the areas covered by this research and training programme.

Amendment

(25) Article 7 of the Euratom Treaty entrusts the Commission with the responsibility of carrying out the Euratom Programme. For the purposes of implementing the Euratom Programme, except its direct actions, the Commission should be assisted by a consultative committee of Member States to ensure appropriate coordination with national policies in the areas covered by this research and training programme. ***The European Parliament should be involved in the Commission's implementation of the programme.***

Or. fr

Amendment 85
Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Recital 26

Text proposed by the Commission

(26) Achievement of the Euratom Programme's objectives in relevant areas requires support for cross-cutting activities, both within the Euratom Programme and jointly with the activities of the 'Horizon 2020' Framework Programme.

Amendment

(26) Achievement of the Euratom Programme's objectives in relevant areas requires support for cross-cutting activities, both within the Euratom Programme and jointly with the activities of the 'Horizon 2020' Framework Programme. ***It should not have any negative repercussion on the budget and financing of the 'Horizon 2020' Framework Programme.***

Or. en

Amendment 86
Jean-Pierre Audy

Proposal for a regulation
Recital 26

Text proposed by the Commission

(26) Achievement of the Euratom Programme's objectives in relevant areas requires support for cross-cutting activities, both within the Euratom Programme and jointly with the activities of the 'Horizon 2020' Framework Programme.

Amendment

(26) Achievement of the Euratom Programme's objectives in relevant areas requires support for cross-cutting activities, both within the Euratom Programme and jointly with the activities of the 'Horizon 2020' Framework Programme. ***This complementarity is in itself sufficient justification for closer European Parliament involvement in Euratom activities.***

Or. fr

Amendment 87
Jean-Pierre Audy

Proposal for a regulation
Article 1

Text proposed by the Commission

This Regulation establishes the Research and Training Programme for the period from 1 January 2014 to 31 December 2018, hereinafter the 'Euratom Programme', and lays down the rules for participation in that programme, including the participation in programmes of funding bodies managing the funds granted in accordance with this Regulation and in activities conducted jointly under this Regulation and under the 'Horizon 2020' Framework Programme established in Regulation (EU) XX/XXX (hereinafter 'Horizon 2020').

Amendment

This Regulation establishes the Research and Training Programme for the period from 1 January 2014 to 31 December 2018, hereinafter the 'Euratom Programme', and lays down the rules for participation in that programme, including the participation in programmes of funding bodies managing the funds granted in accordance with this Regulation and in activities conducted jointly under this Regulation and under the 'Horizon 2020' Framework Programme established in Regulation (EU) XX/XXX (hereinafter 'Horizon 2020').

The Euratom programme will be extended so as to run concurrently with the 'Horizon 2020' Framework Programme.

Amendment 88

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 3 – paragraph 1

Text proposed by the Commission

1. The general objective of the Euratom Programme is to improve nuclear **safety**, security and radiation protection, **and to contribute to the long-term decarbonisation of the energy system in a safe, efficient and secure way**. The general objective shall be implemented through the activities specified in Annex I in the form of direct and indirect actions which pursue the specific objectives set out in paragraphs 2 and 3 of this Article.

Amendment

1. The general objective of the Euratom Programme is to improve nuclear security and radiation protection. The general objective shall be implemented through the activities specified in Annex I in the form of direct and indirect actions which pursue the specific objectives set out in paragraphs 2 and 3 of this Article.

Or. en

Amendment 89

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 3 – paragraph 2 – point a

Text proposed by the Commission

(a) support safe **operation** of nuclear systems;

Amendment

(a) support safe **decommissioning** of nuclear systems, **starting with the most dangerous nuclear reactors following the results of the stress tests carried out in the Union**;

Or. en

Amendment 90
Peter Skinner, Jan Březina

Proposal for a regulation
Article 3 – paragraph 2 – point a a (new)

Text proposed by the Commission

Amendment

***(aa) support safe operation of all existing
and future civilian nuclear systems;***

Or. en

Amendment 91
Michèle Rivasi
on behalf of the Verts/ALE Group

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

Text proposed by the Commission

Amendment

***(b) contribute to the development of
solutions for the management of ultimate
nuclear waste;***

deleted

Or. en

Amendment 92
Michèle Rivasi
on behalf of the Verts/ALE Group

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

Text proposed by the Commission

Amendment

***(c) support the development and
sustainability of nuclear competences at
Union level***

deleted

Or. en

Amendment 93
Silvia-Adriana Țicău

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

Text proposed by the Commission

(c) support the development and sustainability of nuclear competences at Union level;

Amendment

(c) to support ***the measures necessary to ensure suitably trained human resources*** and the development and sustainability of nuclear competences at Union level;

Or. ro

Amendment 94
Jean-Pierre Audy

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

Text proposed by the Commission

(d) ***foster*** radiation protection;

Amendment

(d) ***support R&D in the field of*** radiation protection;

Or. fr

Justification

Use of the term ‘foster’ suggests that radiation protection has been neglected in previous Euratom research programmes. This is not the case: it has always been an important aspect of Euratom R&D.

Amendment 95
Jan Březina, Evžen Tošenovský

Proposal for a regulation
Article 3 – paragraph 2 – point d a (new)

Text proposed by the Commission

Amendment

(da) contribute to the R&D agenda resulting from the recommendations listed

in the conclusions of the Union stress-tests (e.g. seismic modelling, core melt behaviour, ...);

Or. en

Justification

The final peer review report of ENSREG (European Nuclear Safety Regulators Group) of the European safety assessments include recommendations on national safety regulators' activities (e.g. benefits of periodic safety assessments) and on the implementation of recognized measures (e.g. for containment integrity). The Horizon 2020 Euratom framework should address the EU stress-tests and focus on the R&D agenda which derives from these recommendations, in particular in the fields of natural hazards assessment (seismic modelling) and accident impact limitation (core melt behaviour).

Amendment 96

Alejo Vidal-Quadras, Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation

Article 3 – paragraph 2 – point d a (new)

Text proposed by the Commission

Amendment

(da) contribute to the R&D agenda resulting from the recommendations listed in the conclusions of the Union stress-tests such as those related to seismic modelling or core melt simulation;

Or. en

Amendment 97

Alejo Vidal-Quadras, Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation

Article 3 – paragraph 2 – point d b (new)

Text proposed by the Commission

Amendment

(db) support the long-term sustainability of nuclear fission through improvements in the field of reactor time extension or in

the design of new reactor types;

Or. en

Amendment 98

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 3 – paragraph 2 – point e

Text proposed by the Commission

Amendment

*(e) move toward demonstration of
feasibility of fusion as a power source by
exploiting existing and future fusion
facilities;*

deleted

Or. en

Amendment 99

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 3 – paragraph 2 – point f

Text proposed by the Commission

Amendment

*(f) lay the foundations for future fusion
power plants by developing materials,
technologies and conceptual design;*

deleted

Or. en

Amendment 100

Silvia-Adriana Țicău

Proposal for a regulation

Article 3 – paragraph 2 – point f

Text proposed by the Commission

(f) lay the foundations for future fusion power plants by developing materials, technologies and conceptual design;

Amendment

(f) lay the foundations for future fusion **and fission** power plants by developing materials, technologies and conceptual design;

Or. ro

Amendment 101
Jean-Pierre Audy

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

Text proposed by the Commission

(g) promote innovation and industrial competitiveness;

Amendment

(g) promote innovation and industrial competitiveness, **particularly by supporting future fusion and fission reactor systems**;

Or. fr

Justification

Innovation and industrial competitiveness will depend on research into, and the development of, future fusion and fission reactor systems. The reactors will, of course, have to meet the highest safety standards.

Amendment 102
Michèle Rivasi
on behalf of the Verts/ALE Group

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

Text proposed by the Commission

(a) improve nuclear safety **including: fuel and reactor safety, waste management and** decommissioning, and emergency

Amendment

(a) improve nuclear safety **during** decommissioning and emergency preparedness **in case of nuclear accidents**;

preparedness;

Or. en

Amendment 103

Jan Březina, Evžen Tošenovský

Proposal for a regulation

Article 3 – paragraph 3 – point a

Text proposed by the Commission

(a) improve nuclear safety including: fuel and reactor safety, waste management and decommissioning, **and** emergency preparedness;

Amendment

(a) improve nuclear safety including: fuel and reactor safety, waste management and decommissioning, emergency preparedness **and dealing with the direct consequences of nuclear safety incidents, however unlikely they may be**;

Or. en

Justification

The Fukushima accident demonstrated that in the unlikely event of a major release of radioactivity, the consequences and how to deal with them were not as well understood as they should have been.

Amendment 104

Peter Skinner, Jan Březina

Proposal for a regulation

Article 3 – paragraph 3 – point e a (new)

Text proposed by the Commission

Amendment

(ea) complement all required safety improvements suggested following the results of the stress tests carried out on all nuclear reactors in the Union and third countries that border the Union. This should focus on contributing to the Research & Development agenda resulting from their recommendations.

Justification

In 2011 stress tests were carried out on all nuclear power plants in the Union following the accident at the Fukushima Dai-ichi nuclear power plant in Japan. It is important that framework support all Union efforts that seek to improve safety at plants following the results of these tests. The framework should focus on implementing the R&D aspects recommended as a result of the tests and not seek to duplicate the work of other instruments or bodies.

Amendment 105

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 3 – paragraph 4

Text proposed by the Commission

4. The Euratom Programme shall be implemented in such a way as to ensure that the priorities and activities supported are relevant to changing needs and take account of the evolving nature of science, technology, innovation, policy making, markets and society.

Amendment

4. The Euratom Programme shall be implemented in such a way as to ensure that the priorities and activities supported are relevant to changing needs and take account of the evolving nature of science, technology, innovation, policy making, markets and society, ***as well as the direct and indirect consequences of nuclear accidents.***

Or. en

Amendment 106

Jan Březina, Peter Skinner, Evžen Tošenovský

Proposal for a regulation

Article 3 – paragraph 5 a (new)

Text proposed by the Commission

Amendment

5a. The Euratom Programme shall contribute to implementing the SET-plan. Its indirect and direct actions shall be aligned with the Strategic Research Agenda of the three existing European

Or. en

Amendment 107

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – introductory part

Text proposed by the Commission

The financial envelope for the implementation of the Euratom Programme shall be EUR **1 788.889** million. That amount shall be distributed as follows:

Amendment

The financial envelope for the implementation of the Euratom Programme shall be EUR **200.000** million. That amount shall be distributed as follows:

Or. en

Amendment 108

Jean-Pierre Audy

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – introductory part

Text proposed by the Commission

The financial envelope for the implementation of the Euratom Programme shall be EUR **1 788.889** million. That amount shall be distributed as follows:

Amendment

The financial envelope for the implementation of the Euratom Programme shall be EUR **[1 974.319]** million. That amount shall be distributed as follows:

Or. fr

Justification

Financing for Euratom, whether for fusion or for fission systems, has been notoriously inadequate. Over several programme periods the budget for fission research in particular has barely been adjusted in line with inflation (whereas the budget for JRC direct actions has soared). Similarly, for reasons that are unclear, the administrative costs of Horizon 2020 Euratom are higher than those of Horizon 2020. These costs should be harmonised and the

resultant savings should be directed to research.

Amendment 109

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point a

Text proposed by the Commission

Amendment

*(a) indirect actions for the fusion research
and development programme, EUR
709.713 million;* *deleted*

Or. en

Amendment 110

Jean-Pierre Audy

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point a

Text proposed by the Commission

Amendment

*(a) indirect actions for the fusion research
and development programme, EUR
709.713 million;*

*(a) indirect actions for the fusion research
and development programme, EUR [750]
million,*

Or. fr

Amendment 111

Peter Skinner

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point a a (new)

Text proposed by the Commission

Amendment

*(aa) the ITER project shall be included
and funded within the MFF in a complete
and transparent way. Aspects of the*

project not directly related to research and training need not be included in this Euratom framework funding;

Or. en

Justification

The ITER project should be funded from within the MFF so as to prevent any perception of disengagement from the project, which could be seen as harmful to the Community's interest. The long-term success of the ITER would be better-ensured by continuing to fund it through the MFF.

Amendment 112

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point b

Text proposed by the Commission

(b) indirect actions for ***nuclear fission, safety and*** radiation protection, EUR ***354.857*** million;

Amendment

(b) indirect actions for radiation protection ***and medical applications***, EUR ***100.000*** million;

Or. en

Amendment 113

Jean-Pierre Audy

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point b

Text proposed by the Commission

(b) indirect actions for nuclear fission, safety and radiation protection, EUR ***354.857*** million;

Amendment

(b) indirect actions for nuclear fission, safety and radiation protection EUR ***[500]*** million,

Or. fr

Amendment 114

Jan Březina, Evžen Tošenovský

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point b

Text proposed by the Commission

Amendment

(b) indirect actions for nuclear fission, safety and radiation protection, EUR **354.857** million;

(b) indirect actions for nuclear fission, safety and radiation protection, EUR **500.000** million;

Or. en

Justification

Nuclear fission, as a low-carbon source of electricity, is included as one of the low-carbon technologies to be developed for a more sustainable future under the SET-Plan. In the absence of specific funding for the SET-Plan projects, the budget for nuclear fission under Horizon 2020 should be increased – as it has been for the non-nuclear low-carbon technologies – so that work on the European Sustainable Nuclear Industrial Initiative (ESNII) can be progressed.

Amendment 115

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 1 – point c

Text proposed by the Commission

Amendment

(c) direct actions, EUR **724.319** million.

(c) direct actions, EUR **200.000** million.

Or. en

Amendment 116

Jean-Pierre Audy

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 2

Text proposed by the Commission

For the implementation of indirect actions of the Euratom Programme, no more than **13.5%** shall be for the Commission's administrative expenditure.

Amendment

For the implementation of indirect actions of the Euratom Programme, no more than **8%** shall be for the Commission's administrative expenditure.

Or. fr

Amendment 117

Jan Březina, Peter Skinner, Evžen Tošenovský

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 2

Text proposed by the Commission

For the implementation of indirect actions of the Euratom Programme, no more than **13.5 %** shall be for the Commission's administrative expenditure.

Amendment

For the implementation of indirect actions of the Euratom Programme, no more than **8%** shall be for the Commission's administrative expenditure.

Or. en

Justification

This projected expenditure is too high. For most similar proposals the Commission's administrative expenditure does not normally rise above 8%. The Commission has not produced any justification for this significantly expanded rise.

Amendment 118

Vladko Todorov Panayotov

Proposal for a regulation

Article 4 – paragraph 1 – subparagraph 2

Text proposed by the Commission

For the implementation of indirect actions of the Euratom Programme, no more than **13.5 %** shall be for the Commission's administrative expenditure.

Amendment

For the implementation of indirect actions of the Euratom Programme, no more than **7%** shall be for the Commission's administrative expenditure.

Justification

This projected expenditure is too high.

Amendment 119

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 4 – paragraph 4 a (new)

Text proposed by the Commission

Amendment

4a. The Community shall refrain from using other Union or Community funds and programmes for direct and indirect actions than the one referred to in this Article.

Or. en

Amendment 120

Vladimír Remek

Proposal for a regulation

Article 4 – paragraph 4 a (new)

Text proposed by the Commission

Amendment

4a. The Community shall work towards the wider and more frequent use of structural funds for nuclear research and shall ensure that funds are implemented in line with the Community's priorities in the area of research.

Or. cs

Amendment 121

Peter Skinner, Jan Březina

Proposal for a regulation
Article 4 – paragraph 4 a (new)

Text proposed by the Commission

Amendment

4a. The Community shall seek to make further use of Structural funds for nuclear research and ensure alignment of the funds with Community research priorities.

Or. en

Amendment 122
Vladko Todorov Panayotov

Proposal for a regulation
Article 7 – paragraph 3 – subparagraph 1

Text proposed by the Commission

Amendment

3. The ‘Participant guarantee fund’ established pursuant to Regulation (EU) No XX/2012 [Rules for participation and dissemination] shall replace and succeed the Participant guarantee funds established pursuant to Regulation (Euratom) No 1908/2006 and Regulation²³ (Euratom) No XX/XX [*Euratom Rules for participation 2012-2013*].

3. The ‘Participant guarantee fund’ established pursuant to Regulation (EU) No XX/2012 [Rules for participation and dissemination] shall replace and succeed the Participant guarantee funds established pursuant to Regulation (Euratom) No 1908/2006 and Regulation (Euratom) No ***139/2012***.

Or. en

Amendment 123
Vladko Todorov Panayotov

Proposal for a regulation
Article 7 – paragraph 3 – subparagraph 2

Text proposed by the Commission

Amendment

Any sums from the Participant guarantee funds established pursuant to Regulations

Any sums from the Participant guarantee funds established pursuant to Regulations

(Euratom) No 1908/2006 and (Euratom) No **XX/XX [Euratom Rules for participation (2012-2013)]** shall be transferred to the Participant guarantee fund as of 31 December 2013. The participants in actions under Decision **XX/XX [Euratom Programme 2012-2013]** signing grant agreements after 31 December 2013 shall make their contribution to the Participant guarantee fund.

(Euratom) No 1908/2006 and (Euratom) No **139/2012** shall be transferred to the Participant guarantee fund as of 31 December 2013. The participants in actions under Decision **2012/94/Euratom** signing grant agreements after 31 December 2013 shall make their contribution to the Participant guarantee fund.

Or. en

Justification

Council Regulation (Euratom) No 139/2012 lays down the rules for the participation of undertakings, research centres and universities in indirect actions under the Framework Programme of the European Atomic Energy Community and for the dissemination of research results (2012-2013). Council Decision 2012/94/Euratom concerns the specific programme, to be carried out by means of indirect actions, implementing the FP of the EAEC for nuclear research and training activities (2012-2013).

Amendment 124

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 8 – paragraph 2

Text proposed by the Commission

2. The financial contribution referred to in paragraph 1 of this Article ***may be combined*** from the financial contributions for indirect actions set out in Article 4 of this ***Regulation and in Article 6 of Regulation (EU) No XX/XXXX [establishing Horizon 2020], and implemented through a single funding scheme.***

Amendment

2. The financial contribution referred to in paragraph 1 of this Article ***shall only come*** from the financial contributions for indirect actions set out in Article 4 of this Regulation.

Or. en

Amendment 125
Konrad Szymański

Proposal for a regulation
Article 9 – title

Text proposed by the Commission

Gender equality

Amendment

Equal opportunities between men and women in research

Or. en

Amendment 126
Konrad Szymański

Proposal for a regulation
Article 9

Text proposed by the Commission

The Euratom Programme shall ensure the effective promotion of ***gender*** equality ***and the gender dimension in research*** and ***innovation content***.

Amendment

The Euratom Programme shall ensure the effective promotion of equality ***between men and women***.

Or. en

Justification

It is necessary to correct the expression used in the provision to take into account the formulation of the TEU, of the TFEU and of Article 23 of the Charter of Fundamental Rights: such texts always refer to the concept of ‘equality between men and women’, rather than to the not commonly accepted wording referring to ‘gender’. The expression ‘gender dimension’ is ambiguous when referred to the contents of the projects and can also be associated with controversial and not commonly shared agendas.

Amendment 127
Patrizia Toia

Proposal for a regulation
Article 10 – paragraph 1 – subparagraph 2

Text proposed by the Commission

Particular attention shall be paid to the principle of proportionality, the right to privacy, the right to the protection of personal data, the right to the physical and mental integrity of **a person**, the right to non-discrimination and the need to ensure high levels of human health protection.

Amendment

Particular attention shall be paid to the principle of proportionality, **the protection of human dignity, the principle of the primacy of the human being**, the right to privacy, the right to the protection of personal data, the right to the physical and mental integrity of **human beings**, the right to non-discrimination and the need to ensure high levels of human health protection.

Or. it

Justification

Two of the most important principles applicable in this sector are absent: the protection of human dignity (see, for example, Article 1 of the Charter of Fundamental Rights) and the primacy of the human being. The use of the term 'human being' broadens the scope of the protection afforded, as it is more 'scientific', more objective and less controversial and should therefore be used in preference to 'person' in legal instruments.

Amendment 128
Jean-Pierre Audy

Proposal for a regulation
Article 11 – paragraph 2 – subparagraph 2

Text proposed by the Commission

That multi-annual work programme shall **also** take account of relevant research activities carried out by the Member States, associated countries and European and international organisations. *They* shall be updated as and where appropriate.

Amendment

That multi-annual work programme shall **be submitted to the JRC Board of Governors and presented to the Council and Parliament. It shall be required to** take account of relevant research activities carried out by the Member States, associated countries and European and international organisations, **so as to avoid any waste of research effort in Europe and to make best use of the financial resources.** *It* shall be updated as and where appropriate.

Justification

The JRC's budget is growing at such a rate that its work programme must be more closely monitored, and it must be properly ensured that it complements Member States' research programmes.

Amendment 129
Jean-Pierre Audy

Proposal for a regulation
Article 12 – paragraph 1 – subparagraph 2

Text proposed by the Commission

Amendment

By way of derogation from Article 3(3) of Decision 84/338/Euratom, ECSC, EEC and from point 9 of Council Decision of 16 December 1980 respectively, the consultative committees shall be chaired by the Commission.

deleted

Amendment 130

Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Article 16 – paragraph 1 – point c a (new)

Text proposed by the Commission

Amendment

(ca) develop networks for measuring radioactivity in the environment, making all the data collected immediately available to the public.

Amendment 131

Peter Skinner, Jan Březina

Proposal for a regulation

Article 16 – paragraph 2 – subparagraph 3 a (new)

Text proposed by the Commission

Amendment

Particular attention shall be paid to all research reactors and nuclear installations located in third countries but which are geographically very close to Member State territory, especially when located close to hazardous geographical and geological locations.

Or. en

Amendment 132

Jean-Pierre Audy

Proposal for a regulation

Article 19 – paragraph 1

Text proposed by the Commission

Amendment

1. The Commission shall take appropriate measures ensuring that, when actions financed under this Regulation are implemented, the financial interests of the Union are protected by the application of preventive measures against fraud, corruption and any other illegal activities, by effective checks and, where irregularities are detected, by the recovery of the amounts wrongly paid and, where appropriate, by effective, proportionate and deterrent penalties.

1. The Commission shall take appropriate measures ensuring that, when actions financed under this Regulation are implemented, the financial interests of the European Union are protected by the application of preventive measures against fraud, corruption and any other illegal activities, by effective checks and, where irregularities are detected, by the recovery of the amounts wrongly paid and, where appropriate, by effective, proportionate and deterrent penalties. ***The European Parliament shall be informed of such measures.***

Or. fr

Amendment 133
Jean-Pierre Audy

Proposal for a regulation
Article 19 – paragraph 2 – subparagraph 1

Text proposed by the Commission

2. The Commission or its representatives and the Court of Auditors shall have the power of audit, on the basis of documents and on-the-spot checks and inspections, over all grant beneficiaries, contractors, subcontractors and other third parties who have received Union funds under this Regulation.

Amendment

2. The Commission or its representatives, ***the European Parliament*** and the Court of Auditors shall have the power of audit, on the basis of documents and on-the-spot checks and inspections, over all grant beneficiaries, contractors, subcontractors and other third parties who have received Union funds under this Regulation.

Or. fr

Amendment 134
Jean-Pierre Audy

Proposal for a regulation
Article 19 – paragraph 4

Text proposed by the Commission

4. Without prejudice to the paragraphs 1, 2 and 3, cooperation agreements with third countries and international organisations, grant agreements, grant decisions and contracts resulting from the implementation of this Regulation shall expressly empower the Commission, the Court of Auditors and the OLAF to conduct audits, on-the-spot checks and inspections.

Amendment

4. Without prejudice to the paragraphs 1, 2 and 3, cooperation agreements with third countries and international organisations, grant agreements, grant decisions and contracts resulting from the implementation of this Regulation shall expressly empower the Commission, the Court of Auditors and the OLAF to conduct audits, on-the-spot checks and inspections. ***The European Parliament shall be informed of the result of such audits without delay.***

Or. fr

Amendment 135
Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Article 21 – paragraph 1 – subparagraph 3

Text proposed by the Commission

By 31 December 2022, the Commission shall carry out, with the assistance of independent experts, an ex-post evaluation of the Euratom Programme.

That shall cover the rationale, implementation and achievements, as well as the longer-term impacts and sustainability of the measures, to feed into a decision on a possible renewal, modification or suspension of a subsequent measure.

Amendment

That shall cover the rationale, implementation and achievements, as well as the longer-term impacts and sustainability of the measures, to feed into a decision on a possible renewal, modification or suspension of a subsequent measure.

Or. en

Justification

In order to have sufficient time to decide if and how to prolong this Research programme beyond 2018, the proposed possible renewal, modification or suspension of a subsequent measure needs to be presented by the Commission not later than 31 May 2017.

Amendment 136

Jean-Pierre Audy

Proposal for a regulation

Article 21 – paragraph 4

Text proposed by the Commission

4. Member States shall provide the Commission with data and information necessary for the monitoring and evaluation of the measures concerned.

Amendment

4. Member States shall provide the Commission ***and the European Parliament*** with data and information necessary for the monitoring and evaluation of the measures concerned.

Or. fr

Amendment 137

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 1 – paragraph 1

Text proposed by the Commission

By achieving the objectives set out in Article 3, the Euratom Programme shall reinforce outcomes under the three priorities of the 'Horizon 2020' Framework Programme: excellent science, industrial leadership, and societal challenges. ***The Euratom Programme shall in particular support the transition to a reliable, sustainable and competitive energy system in the future, in the face of increasing resource scarcity, growing energy needs and climate change.***

Amendment

By achieving the objectives set out in Article 3, the Euratom Programme shall reinforce outcomes under the three priorities of the 'Horizon 2020' Framework Programme: excellent science, industrial leadership, and societal challenges.

Or. en

Amendment 138

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 1 – paragraph 3

Text proposed by the Commission

The strategy to develop fusion as a credible option for commercial carbon-free energy production shall follow a roadmap with milestones towards the goal of electricity production by 2050. To implement that strategy, a radical restructuring of fusion-related work in the Union, including governance, funding and management, shall be carried out to ensure a shift of emphasis from pure research to designing, building and operating future facilities such as ITER, DEMO and beyond. That shall require a

Amendment

Fusion is not described as a credible option for commercial electricity production ***in any 2050 scenarios presented so far. Therefore, no more public Union / Community money will be devoted towards*** fusion-related work in the Union.

close cooperation between the entire Union fusion community, the Commission and the national funding agencies.

Or. en

Amendment 139

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.1 – point a

Text proposed by the Commission

In line with the general objective, support to joint research activities concerning the safe operation of reactor systems (including fuel cycle facilities) in use in the Union *or, to the extent necessary in order to maintain broad nuclear safety expertise in the Union, those reactor types 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

In line with the general objective, support to joint research activities concerning the safe operation of *the decommissioning of nuclear* reactor systems (including fuel cycle facilities) in use in the Union.

Or. en

Amendment 140

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.1 – point b

Text proposed by the Commission

(b) Contribute to the development of solutions for the management of ultimate nuclear waste(Excellent science; Societal challenges)

Joint and/or coordinated research activities on remaining key aspects of

Amendment

deleted

geological disposal of spent fuel and long-lived radioactive waste with, as appropriate, demonstration of technologies and safety. Those activities shall promote the development of a common Union view on the main issues related to waste management from discharge of fuel to disposal. Research activities related to management of other radioactive waste streams for which industrially mature processes currently do not exist.

Or. en

Amendment 141
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 2 – point 2.1 – point d – introductory part

Text proposed by the Commission

Amendment

(d) **Foster** radiation protection (Excellent science; Societal challenges)

(d) **Support R&D in the field of** radiation protection (Excellent science; Societal challenges)

Or. fr

Justification

Use of the term ‘foster’ suggests that radiation protection has been neglected in previous Euratom research programmes. This is not the case: it has always been an important aspect of Euratom R&D.

Amendment 142
Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex I – part 2 – point 2.1 – point e

Text proposed by the Commission

Amendment

(e) Move toward demonstration of feasibility of fusion as a power source by exploiting existing and future fusion facilities (Industrial leadership; Societal challenges) ***deleted***

Support common research activities undertaken by members of the European Fusion Development Agreement to ensure the swift start of high performance operation of ITER including the use of relevant facilities (including JET, the Joint European Torus), of integrated modelling using high performance computers, and training activities to prepare the next generation of researchers and engineers.

Or. en

Amendment 143

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.1 – point f

Text proposed by the Commission

Amendment

(f) Lay the foundations for future fusion power plants by developing materials, technologies and conceptual design (Industrial leadership; Societal challenges) ***deleted***

Support to joint activities undertaken by members of the European Fusion Development Agreement to develop and qualify materials for a demonstration power plant requiring, inter alia, preparatory work for an appropriate material test facility and negotiations for the Union's participation in a suitable international framework for that facility.

Support to joint research activities undertaken by members of the European Fusion Development Agreement that shall address reactor operation issues and shall develop and demonstrate all relevant technologies for a fusion demonstration power plant. Those activities include the preparation of a complete demonstration power plant conceptual design(s) and exploration of the potential of stellarators as a power plant technology.

Or. en

Amendment 144

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.1 – point g

Text proposed by the Commission

Amendment

(g) Promote innovation and industry competitiveness (Industrial leadership)

deleted

Implementing or supporting knowledge management and technology transfer from the research co-funded by this programme to industry exploiting all innovative aspects of the research.

Promoting innovation through, inter alia, open access to scientific publications, a database for knowledge management and dissemination and promoting technology topics in educational programmes.

In the long term, the Euratom Programme shall support the preparation and development of a competitive nuclear fusion industrial sector, in particular through the implementation of a technology road map to a fusion power plant with active industrial involvement in the design and development projects.

Amendment 145

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.1 – point i

Text proposed by the Commission

Amendment

(i) European Fusion Development Agreement

deleted

A grant (Programme co-fund action) shall be awarded to the legal entity that shall be established or designated by members of the European Fusion Development Agreement in order to implement and coordinate their activities. That grant may include resources in kind from the Community, such as scientific and technical exploitation of the JET facility in accordance with Article 10 of the Euratom Treaty, or the secondment of Commission staff.

Amendment 146

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.2 – paragraph 1

Text proposed by the Commission

Amendment

The nuclear activities of the JRC shall aim to support the implementation of Council Directives 2009/71/Euratom²⁸ and 2011/70/Euratom²⁹, as well as Council Conclusions giving priority to the highest standards for nuclear safety and security in the Union and internationally.

deleted

The JRC shall notably mobilise the necessary capacity and expertise in order to contribute to assess and improve the safety of nuclear installations and the peaceful use of nuclear energy and other non fission applications, to provide a scientific basis to relevant Union legislation and, where necessary, to react within the limits of its mission and competence to nuclear incidents and accidents. To that effect, the JRC shall carry out research and assessments, provide references and standards and deliver dedicated training and education. Synergies with the Sustainable Nuclear Energy Technology Platform (SNETP) and other cross-cutting initiatives will be sought as appropriate.

Or. en

Amendment 147
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 2 – point 2.2 – paragraph 1

Text proposed by the Commission

The nuclear activities of the JRC shall aim to support the implementation of Council Directives 2009/71/Euratom and 2011/70/Euratom, as well as Council Conclusions giving priority to the highest standards for nuclear safety and security in the Union and internationally. The JRC shall notably mobilise the necessary capacity and expertise in order to contribute to ***assess and improve the safety of nuclear installations*** and the peaceful use of nuclear energy and other non fission applications, to provide a scientific basis to relevant Union *legislation* and, where necessary, to react within the limits of its mission and competence to nuclear incidents and accidents. To that effect, the

Amendment

The nuclear activities of the JRC shall aim to support the implementation of Council Directives 2009/71/Euratom and 2011/70/Euratom, as well as Council Conclusions giving priority to the highest standards for nuclear safety and security in the Union and internationally. The JRC shall notably mobilise the necessary capacity and expertise in order to contribute to ***R&D in the field of nuclear installation safety*** and the peaceful use of nuclear energy and other non fission applications, to provide a scientific basis to relevant Union *legislation* and, where necessary, to react within the limits of its mission and competence to nuclear incidents and accidents. To that effect, the

JRC shall carry out research and assessments, provide references and standards and deliver dedicated training and education. Synergies with the Sustainable Nuclear Energy Technology Platform (SNETP) and other cross-cutting initiatives will be sought *as appropriate*.

JRC shall carry out research and assessments, provide references and standards and deliver dedicated training and education. Synergies with the Sustainable Nuclear Energy Technology Platform (SNETP) and other cross-cutting initiatives will be sought ***as a matter of necessity, in order to optimise the human and financial resources for nuclear R&D in Europe***.

Or. fr

Justification

The rewording confines the activity of the JRC to R&D in the field of safety. The JRC is not a safety authority and it is not part of its role to 'assess' installation safety or cope with emergency situations. Seeking to optimise the relevant resources is also vital.

Amendment 148
Jean-Pierre Audy

Proposal for a regulation

Annex I – part 2 – point 2.2 – point a – introductory part

Text proposed by the Commission

The JRC shall contribute to the development of tools and methods to achieve high safety standards for nuclear power reactors and fuel cycles relevant to Europe. Those tools and methods shall include:

Amendment

The JRC, ***in close cooperation with the relevant research bodies in the EU***, shall contribute to the development of tools and methods to achieve high safety standards for nuclear power reactors and fuel cycles relevant to Europe. Those tools and methods shall include:

Or. fr

Justification

The rewording confines the activity of the JRC to its own field of responsibility. The JRC is not a safety authority and is not therefore responsible for coping with emergency situations or supplying appropriate technical assistance: there are technical safety organisations in Europe which fill this role. Given the limited nature of the relevant resources, seeking to optimise them is also vital, as is the coordination of research in Europe.

Amendment 149
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 2 – point 2.2 – point a – point 1

Text proposed by the Commission

(1) severe accident analyses modelling and methodologies for assessment of nuclear installations operational safety margins; support to the establishment of a common European approach to the evaluation of advanced fuel cycles and designs; and investigation and dissemination of the lessons learnt from the operational experience. The JRC shall **further reinforce its** 'European Clearinghouse on NPP Operational Experience Feedback' to respond to the emerging post-Fukushima nuclear safety challenges.

Amendment

(1) severe accident analyses modelling and methodologies for assessment of nuclear installations operational safety margins; support to the establishment of a common European approach to the evaluation of advanced fuel cycles and designs; and investigation and dissemination of the lessons learnt from the operational experience. The JRC shall **pursue the work of the** 'European Clearinghouse on NPP Operational Experience Feedback' to respond to the emerging post-Fukushima nuclear safety challenges, **continuing to draw on relevant expertise in the Member States**.

Or. fr

Justification

The rewording confines the activity of the JRC to its own field of responsibility. The JRC is not a safety authority and is not therefore responsible for coping with emergency situations or supplying appropriate technical assistance: there are technical safety organisations in Europe which fill this role. Given the limited nature of the relevant resources, seeking to optimise them is also vital, as is the coordination of research in Europe.

Amendment 150
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 2 – point 2.2 – point a – point 2 a (new)

Text proposed by the Commission

Amendment

(2a) decommissioning and dismantling are promising market areas, given the

relevant scientific advances and safety imperatives. The EU must acquire the best possible technologies for this work, which will involve increasingly sophisticated techniques (such as underwater cutting, laser cutting and state-of-the-art robots to eliminate human intervention).

Or. fr

Amendment 151

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 2 – point 2.2 – point a – point 3

Text proposed by the Commission

(3) strengthening Union capacity to respond to nuclear accidents and incidents by further development of alert systems and models for radiological dispersion in the air, and by mobilising resources and expertise for analysing and modelling nuclear accidents and providing relevant technical support.

Amendment

(3) strengthening Union capacity to respond to nuclear accidents and incidents by further development of alert systems and models for radiological dispersion in the *environment* (air, *water, soil*) and by mobilising resources and expertise for analysing and modelling nuclear accidents and providing relevant technical support. *The JRC shall further reinforce EURDEP (European Radiological Data Exchange Platform) so that to make invalidated radiological monitoring data, including radioactive concentration in the air, from European countries available in nearly real-time to the public. In addition, the highly sensitive radionuclide detection network, capable of identifying traces of radioactive iodine not resulting from a nuclear explosion, shall be extended throughout the Union and the monitoring data shall be made available to the public in real time.*

Or. xm

Amendment 152
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 2 – point 2.2 – point a – point 3

Text proposed by the Commission

Amendment

(3) *strengthening Union capacity to respond to nuclear accidents and incidents by further development of alert systems and models for radiological dispersion in the air, and* by mobilising resources and expertise for analysing and modelling nuclear accidents and providing relevant technical support.

(3) *exchanges with the Member State bodies responsible for managing* nuclear accidents and incidents, ***particularly*** by mobilising resources and expertise for analysing and modelling nuclear accidents and providing relevant technical support.

Or. fr

Justification

The rewording confines the activity of the JRC to its own field of responsibility. The JRC is not a safety authority and is not therefore responsible for coping with emergency situations or supplying appropriate technical assistance: there are technical safety organisations in Europe which fill this role. Given the limited nature of the relevant resources, seeking to optimise them is also vital, as is the coordination of research in Europe.

Amendment 153
Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex I – part 2 – point 2.2 – point e

Text proposed by the Commission

Amendment

(e) *Support the policy of the Union on nuclear safety and security and the related evolving Union legislation*

deleted

JRC shall foster its competence in order to provide the independent scientific and technical evidence necessary to support the evolving Union legislation on nuclear safety and security.

As the Euratom Implementing Agent for the Generation IV International Forum (GIF), the JRC shall continue to coordinate the Community contribution to GIF. The JRC shall pursue and further develop international research cooperation with key partner countries and international organizations (IAEA, OECD/NEA) in order to promote Union's nuclear safety and security policies.

Or. en

Amendment 154
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 2 – point 2.2 – point e – paragraph 1

Text proposed by the Commission

JRC shall foster its competence in order to provide the independent scientific and technical evidence necessary to support the evolving Union legislation on nuclear safety and security.

Amendment

JRC shall foster its competence in order to provide the independent scientific and technical evidence necessary to support the evolving Union legislation on nuclear safety and security. ***The precise nature of this research must be determined subject to guidelines to be adopted by the EU institutions, particularly in the light of the stress tests on nuclear power plants.***

Or. fr

Justification

The JRC's role is to work in support of EU policies, in this case on safety and security matters. It is therefore legitimate to wait for guidelines from the EU institutions, following the stress tests on nuclear power plants, on the JRC's work programme.

Amendment 155
Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex I – part 4

Text proposed by the Commission

Amendment

**4. Cross-cutting activities and interfaces
with the ‘Horizon 2020’ Framework
Programme for Research and Innovation** *deleted*

*In order to achieve the objectives of the
Euratom Programme, appropriate links
and interfaces, such as joint calls, shall be
ensured with the Specific Programme of
the ‘Horizon 2020’ Framework
Programme.*

*The Euratom Programme may contribute
to the Debt facility and Equity facility
developed under the ‘Horizon 2020’
Framework Programme that shall be
widened to cover the objectives referred to
in Article 3.*

Or. en

Amendment 156
Jean-Pierre Audy

Proposal for a regulation
Annex I – part 4 – paragraph 2 a (new)

Text proposed by the Commission

Amendment

*Basic research that is potentially
applicable not only in nuclear-related
fields but also in other research sectors
covered by Horizon 2020 will be eligible
for ERC programme funding.*

Or. fr

Justification

Currently, basic research erroneously tagged as ‘nuclear’ is barred from ERC funding on the grounds that it comes under Euratom. Such discrimination must be prevented, as the ERC is supposed to fund all types of basic research.

Amendment 157

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex I – part 6 – paragraph 2

Text proposed by the Commission

International cooperation activities shall be promoted through multilateral frameworks (such as IAEA, OECD, **ITER**, GIF), and by the existing or new bilateral cooperation with countries having strong R&D and industrial bases and research installations under operation, design or construction.

Amendment

International cooperation activities shall be promoted through multilateral frameworks (such as IAEA, OECD, GIF), and by the existing or new bilateral cooperation with countries having strong R&D and industrial bases and research installations under operation, design or construction.

Or. en

Amendment 158

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex II – part 1 – point a

Text proposed by the Commission

(a) Support safe operation of nuclear systems

– Percentage of funded projects (joint research and/or coordinated actions) likely to lead to a demonstrable improvement in nuclear safety practice in Europe.

Amendment

deleted

Or. en

Amendment 159

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation
Annex II – part 1 – point b

Text proposed by the Commission

Amendment

(b) Contribute to the development of solutions for the management of ultimate nuclear waste

deleted

– Number of geological repositories for spent nuclear fuel and/or high-level waste that are planned in Europe and for which the Community supported the preparation of a safety case and the possible pre-construction phase.

Or. en

Amendment 160
Michèle Rivasi
on behalf of the Verts/ALE Group

Proposal for a regulation
Annex II – part 1 – point c – indent 2

Text proposed by the Commission

Amendment

– Number of fellows and trainees in the Euratom fusion programme.

deleted

Or. en

Amendment 161
Alejo Vidal-Quadras, Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation
Annex II – part 1 – point d a (new)

Text proposed by the Commission

Amendment

(da) Contribute to the R&D agenda resulting from the recommendations listed in the conclusions of the Union stress-tests such as those related to seismic

modelling or core melt simulation.

- Percentage of funded projects likely to facilitate the application of these recommendations.

Or. en

Amendment 162

Alejo Vidal-Quadras, Cristina Gutiérrez-Cortines, Pilar del Castillo Vera

Proposal for a regulation

Annex II – part 1 – point d b (new)

Text proposed by the Commission

Amendment

(db) Support the long-term sustainability of nuclear fission through improvements in the field of reactor time extension or in the design of new reactor types.

- Percentage of funded projects likely to have a demonstrable impact in the field of reactor time extension or in the design of new reactors types.

Or. en

Amendment 163

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex II – part 1 – point e

Text proposed by the Commission

Amendment

(e) Move toward demonstration of feasibility of fusion as a power source by exploiting existing and future fusion facilities

– Number of publications in high impact journals.

deleted

Amendment 164

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex II – part 1 – point f

Text proposed by the Commission

Amendment

(f) Lay the foundations for future fusion power plants by developing materials, technologies and conceptual design ***deleted***

– Percentage of the Fusion Roadmap's milestones established for a period 2014-2018 reached by the Euratom Programme

Amendment 165

Michèle Rivasi

on behalf of the Verts/ALE Group

Proposal for a regulation

Annex II – part 1 – point g

Text proposed by the Commission

Amendment

(g) Promote innovation and industrial competitiveness ***deleted***

– Number of spin-offs from the fusion research under Euratom Programme

– Patents applications generated by European fusion laboratories

Amendment 166

Vladko Todorov Panayotov

Proposal for a regulation
Annex II – part 1 – point g – indent 2

Text proposed by the Commission

– Patents applications generated by
European fusion laboratories

Amendment

– Patents ***and utility models*** applications
generated by European fusion laboratories

Or. en

Justification

For completeness.

Amendment 167
Vladko Todorov Panayotov

Proposal for a regulation
Annex II – part 2 – point b – indent 1

Text proposed by the Commission

– Number of peer reviewed publications

Amendment

– Number of peer reviewed publications,
patents and utility models applications

Or. en

Justification

Placing too much emphasis on most frequently cited publications, creates a bias towards research areas that are already well established and not to the promotion of innovation and industrial competitiveness With a budget of EUR 724.319 million the JRC scientific productivity should be more oriented to real European added value.