



# House of Commons

Tuesday 20 April 2021

## PUBLIC BILL COMMITTEE

*New Amendments handed in are marked thus ★*

☆ *Amendments which will comply with the required notice period at their next appearance*

### ADVANCED RESEARCH AND INVENTION AGENCY BILL

#### NOTE

**This document includes all amendments remaining before the Committee and includes any withdrawn amendments at the end. The amendments have been arranged in accordance with the Order of the Committee [14 April 2021].**

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

Clause 1, page 1, line 3, leave out “Advanced Research and Invention Agency” and insert “Advanced Research and Engineering Projects Agency” 2

***Member’s explanatory statement***

*This amendment would modify the name of the Advanced Research and Invention Agency to the Advanced Research and Engineering Projects Agency.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

Clause 1, page 1, line 5, leave out “ARIA” and insert “AREPA” 3

***Member’s explanatory statement***

*This amendment would reflect a modification to the name of the Advanced Research and Invention Agency to the Advanced Research and Engineering Projects Agency.*

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**Advanced Research and Invention Agency Bill, *continued***

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

4

Clause 1, page 1, line 6, leave out “ARIA” and insert “AREPA”

***Member’s explanatory statement***

*This amendment would reflect a modification to the name of the Advanced Research and Invention Agency to the Advanced Research and Engineering Projects Agency.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

5

Schedule 1, page 6, line 10, at end insert—

*“Memorandum of understanding*

- 2 (1) ARIA and UK Research and Innovation must prepare a memorandum of understanding.
- (2) The memorandum must set out how ARIA and UK Research and Innovation intend to co-operate with each other and avoid overlap between the exercise by ARIA of its functions and the exercise by UK Research and Invention of its functions.
- (3) The memorandum shall be reviewed on an annual basis and revised as necessary by agreement between ARIA and UK Research & Innovation.”

***Member’s explanatory statement***

*This amendment would require ARIA and UKRI to prepare a memorandum of understanding setting out how they will collaborate and avoid overlap.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

6

Schedule 1, page 6, line 21, at end insert—

“(c) the Chief Executive Officer of UK Research and Innovation; and”

***Member’s explanatory statement***

*This amendment would make the CEO of UKRI a non-executive member of ARIA in order to achieve greater collaboration and communication between the two bodies.*

Stephen Flynn  
Kirsty Blackman

28

Schedule 1, page 6, line 22, at end insert—

“(4) The Secretary of State must ensure that—

- (a) at least 50% of the other members appointed under (3)(c) are women; and

**Advanced Research and Invention Agency Bill**, *continued*

- (b) where the number of members under (a) would be an odd number, the calculation of 50% of other members should be made as if the board had one fewer non-executive member.”

**Member’s explanatory statement**

*This amendment is intended to ensure that the Secretary of State appoints a significant percentage of women as other non-executive members.*

Stephen Flynn  
Kirsty Blackman

31

Schedule 1, page 6, line 22, at end, insert—

“(3A) The Secretary of State may not appoint a person as chair unless the appointment of that person has been approved by resolution of each House of Parliament.

(3B) ARIA may not exercise any functions under this or any other Act, nor may the Secretary of State make any grants to ARIA under section 4 of this Act, until its first chair has been appointed.”

**Member’s explanatory statement**

*This amendment requires both Houses of Parliament, under the affirmative resolution procedure, to approve the name of the proposed Chair. ARIA may not exercise any functions, nor may the Secretary of State make any grants to ARIA until its first chair has been appointed.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

7

Schedule 1, page 6, line 24, at end insert—

“(5) The Secretary of State must, in appointing the members of ARIA, have regard to the desirability of the members (between them) having relevant experience.”

**Member’s explanatory statement**

*This amendment would require the Secretary of State to have regard to the (collective) relevant experience of ARIA’s members when using their power of appointment.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

8

Schedule 1, page 6, line 24, at end insert—

“(5) The Secretary of State must, in appointing the members of ARIA, have regard to the desirability of the members including at least one person with relevant experience in relation to each of Wales, Scotland and Northern Ireland.

(6) In this section, “relevant experience” means experience of one or more of the following—

(a) the conduct of scientific research; and

(b) the development or exploitation of scientific knowledge.”

**Member’s explanatory statement**

*This amendment would require the Secretary of State to have regard to the (collective) relevant experience of ARIA’s members in the devolved nations when using their power of appointment.*

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**Advanced Research and Invention Agency Bill, *continued***

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

9

Schedule 1, page 6, line 24, at end insert—

“(5) The Secretary of State must, in appointing the members of ARIA, have regard to the diversity of the members including the representation of those with protected characteristics.

(6) In this section, “protected characteristics” has the meaning given by Part 2, Chapter 1 of the Equalities Act 2010.”

***Member’s explanatory statement***

*This amendment would require the Secretary of State to have regard to the diversity of ARIA’s board when using their powers of appointment.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

10

Schedule 1, page 6, line 26, at end insert “with the consent of the Science and Technology Select Committee of the House of Commons.”

***Member’s explanatory statement***

*This amendment would require that the Secretary of State seeks and obtains the consent of the Science and Technology Committee of the House of Commons for the appointment of ARIA’s first Chief Executive Officer.*

Stephen Flynn  
Kirsty Blackman

33

Schedule 1, page 6, line 26, at end insert—

“(1A) The Secretary of State may not appoint a person as Chief Executive Officer unless the appointment of the person has been approved by resolution of each House of Parliament.

(1B) ARIA may not exercise any functions under this or any other Act, nor may the Secretary of State make any grants to ARIA under section 4 of this Act, until its first Chief Executive Officer has been appointed.”

***Member’s explanatory statement***

*This amendment requires both Houses of Parliament, under the affirmative resolution procedure, to approve the name of the proposed Chief Executive Officer. ARIA may not exercise any functions, nor may the Secretary of State make any grants to ARIA until its first Chief Executive Officer has been appointed.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

11

Schedule 1, page 6, line 31, leave out sub-paragraph 4 and insert—

“(4) The Secretary of State may refuse consent under sub-paragraph (3) only where the Secretary of State considers—

(a) it necessary or expedient in the interests of national security, or

**Advanced Research and Invention Agency Bill, continued**

(b) the person is unable or unfit to carry out the functions of the office.”

**Member’s explanatory statement**

*This amendment would allow the Secretary of State to refuse consent to the appointment of an executive member of ARIA on the basis of their unfitness or inability to carry out the functions of the office.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

12

Schedule 1, page 7, line 11, leave out sub-paragraph 2 and insert—

“(2) The Secretary of State may remove a person from office as an executive member if the Secretary of State considers—

(a) it necessary or expedient in the interests of national security, or

(b) the person is unable or unfit to carry out the functions of the office.”

**Member’s explanatory statement**

*This amendment would allow the Secretary of State to remove an executive member of ARIA on the basis of their unfitness or inability to carry out the functions of the office.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

13

Schedule 1, page 9, line 11, leave out paragraph 11 and insert—

“11 The Secretary of State must by regulations make provision establishing the procedures to be adopted for dealing with conflicts of interest of members of ARIA, members of a committee or sub-committee or ARIA’s employees.”

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

14

Schedule 1, page 10, line 5, at end insert—

“(3) The report shall contain information regarding—

(a) the proportion of ARIA’s funding in the relevant financial year which has financed activities taking place (in whole or in part) outside the United Kingdom, and

(b) the national and regional distribution of activities in the United Kingdom supported by ARIA’s funding in the relevant financial year.”

**Member’s explanatory statement**

*This amendment would require ARIA’s annual report to contain details of the geographical distribution of activities funded by ARIA.*

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**Advanced Research and Invention Agency Bill, *continued***

Stephen Flynn  
Kirsty Blackman

29

Schedule 1, page 10, line 5, at end insert—

“(3) The report must include—

- (a) statistics on the gender balance of—
  - (i) executive board members
  - (ii) non-executive board members
  - (iii) senior staff; and
- (b) financial information on the gender pay gap among ARIA employees and appointees.”

***Member’s explanatory statement***

*This amendment is intended to ensure that this public body may be held accountable for its gender representation.*

Stephen Flynn  
Kirsty Blackman

30

Schedule 1, page 10, line 5, at end insert—

“(3) This report must include statistics regarding the percentage of its funding disbursed in each region of the UK.”

***Member’s explanatory statement***

*This amendment is intended to provide greater transparency about the destination of ARIA’s funding disbursements within the UK.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

15

Clause 2, page 1, line 7, at end insert—

“(1) In exercising its functions, ARIA must have regard to its core mission.

(2) In this section, “core mission” means—

- (a) for the period of ten years after the date on which this Act is passed, undertaking activities which support the achievement of the target established in section 1 of the Climate Change Act 2008;
- (b) thereafter, that mission or missions which the Secretary of State establishes by regulations every five years.
- (c) regulations under this section—
  - (i) shall be made by statutory instrument, and
  - (ii) may not be made unless a draft has been laid before and approved by resolution of each House of Parliament.”

***Member’s explanatory statement***

*This amendment would require ARIA to consider its core mission in exercising its functions. For the ten years following the Act passing, that core mission would be undertaking activities to support the achievement of net zero. Thereafter, its mission will be established by statutory instrument subject to the draft affirmative procedure.*

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 Advanced Research and Invention Agency Bill, *continued*

Stephen Flynn  
Kirsty Blackman

35

Clause 2, page 1, line 8, at end insert—

“(A1) ARIA’s primary mission will be to support the development of technologies and research that support the UK’s transition to net zero carbon emissions or reduce the harmful effects of climate change.”

***Member’s explanatory statement***

*This amendment sets the primary mission for ARIA to support the development of technologies and research that support the UK’s transition to net zero carbon emissions or reduce the harmful effects of climate change.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

16

Clause 2, page 2, line 10, leave out “in” and insert “across”

***Member’s explanatory statement***

*This amendment would require ARIA to have regard for the benefits of its activities across the nations and regions of the UK in exercising its functions.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

17

Clause 2, page 2, line 12, leave out “in” and insert “across”

***Member’s explanatory statement***

*See the explanatory statement for Amendment 16.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

18

Clause 2, page 2, line 14, leave out the first “in” and insert “across”

***Member’s explanatory statement***

*See the explanatory statement for Amendment 16.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

19

Clause 3, page 2, line 20, at end insert—

“(2) On or before the date that an annual report is laid before Parliament in accordance with paragraph 15(4) of Schedule 1, the Secretary of State must lay before

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**Advanced Research and Invention Agency Bill, *continued***

Parliament, and publish, a statement containing the required information about details of funding and ARIA’s tolerance to failure.

- (3) In this section, the required information about ARIA’s tolerance to failure is—
- (a) how this section has been interpreted by ARIA during the relevant financial year,
  - (b) the number and value of projects funded by ARIA which have been terminated or disbanded on the grounds of failure during the relevant financial year, and
  - (c) details of ARIA’s funding in the relevant financial year and its proportion of Government research and development expenditure.”

***Member’s explanatory statement***

*This amendment would require the Secretary of State to make an annual statement regarding ARIA’s tolerance to failure.*

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Stephen Flynn  
Kirsty Blackman

**32**

Clause 4, page 2, line 21, at beginning insert “Subject to paragraph 2(3B) of Schedule 1,”

***Member’s explanatory statement***

*This amendment is consequential to Amendment 31.*

Stephen Flynn  
Kirsty Blackman

**34**

Clause 4, page 2, line 21, at beginning insert “Subject to paragraph 3(1B) of Schedule 1,”

***Member’s explanatory statement***

*This amendment is consequential to Amendment 33.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

**20**

Clause 5, page 2, line 33, at end insert—

- “(4) The Secretary of State must, in relation to each financial year—
- (a) prepare a report in accordance with this section, and
  - (b) provide a copy of it to the Intelligence and Security Committee of Parliament as soon as is practicable after the end of that period.
- (5) Each report must provide details of—
- (a) any directions made under this section in the relevant financial year, and



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Advanced Research and Invention Agency Bill, *continued*

- (b) the nature of the national risks posed which triggered the making of the directions.”

***Member’s explanatory statement***

*This amendment would require the Secretary of State to prepare and provide to the ISC an annual report on any directions made under this section.*

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Stephen Flynn  
Kirsty Blackman

27

Clause 6, page 2, line 38, at end insert—

- “(2) ARIA must provide relevant Select Committees of the House of Commons and the House of Lords with such information as the Select Committees may request.”

***Member’s explanatory statement***

*This amendment is intended to allow relevant parliamentary Select Committees to access information in order to scrutinise the value for money provided by ARIA.*

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Stephen Flynn  
Kirsty Blackman

38

Clause 8, page 3, line 21, at end insert “unless they are made under subsection (7)”

***Member’s explanatory statement***

*This amendment ensures that ARIA cannot use its significant resources to fund weapon development.*

Stephen Flynn  
Kirsty Blackman

37

Clause 8, page 4, line 4, at end insert—

- “(7) The Secretary of State must immediately dissolve ARIA if it uses any of its resources to support weapon development.”

***Member’s explanatory statement***

*This amendment ensures that ARIA cannot use its significant resources to fund weapon development.*

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**Advanced Research and Invention Agency Bill, *continued***

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner  
Stephen Flynn

Kirsty Blackman

21

Schedule 3, page 13, line 37, leave out paragraph 11

*Member's explanatory statement*

*This amendment would remove ARIA's exemption from the Public Contracts Regulations 2015.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner  
Stephen Flynn

Kirsty Blackman

22

Schedule 3, page 14, line 3, at end insert—

*“Freedom of Information Act 2000*

(12) In Part VI of Schedule 1 to the Freedom of Information Act 2000 (“Other public bodies and offices: general”), at the appropriate place insert “The Advanced Research and Invention Agency”.”

*Member's explanatory statement*

*This amendment would make ARIA subject to the Freedom of Information Act 2000.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

23

Clause 12, page 5, line 10, after “social sciences” insert “and the humanities”

*Member's explanatory statement*

*This amendment would modify the definitions of scientific knowledge and scientific research to encompass the humanities.*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

24

Clause 12, page 5, line 13, after “social sciences” insert “and the humanities”

*Member's explanatory statement*

*See the explanatory statement for Amendment 23.*

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Advanced Research and Invention Agency Bill, *continued*

Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

25

Clause 12, page 5, line 13, at end insert—

““Invention” means the process by which ideas are converted into value in the form of new and improved products, services and approaches.”

***Member’s explanatory statement***

*This amendment would establish the meaning of “invention” as referred to in the title and functions of ARIA.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

26

Clause 15, page 5, line 35, leave out “Advanced Research and Invention Agency” and insert “Advanced Research and Engineering Projects Agency”

***Member’s explanatory statement***

*This amendment will modify the ARIA short title.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

NC1

To move the following Clause—

**“Protection of independence of ARIA**

In exercising functions in respect of ARIA, the Secretary of State must have regard to the need to protect its independence.”

***Member’s explanatory statement***

*This new clause would require the Secretary of State to have regard for the need to protect ARIA’s independence when exercising functions under the Bill, including with respect to appointments.*

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**Advanced Research and Invention Agency Bill, *continued***

Stephen Flynn  
Kirsty Blackman

NC2

To move the following Clause—

**“Carbon costs**

ARIA must—

- (a) have regard to the carbon costs of decisions it makes; and
- (b) operate with net zero carbon costs.”

***Member’s explanatory statement***

*This new clause is intended to ensure that ARIA has regard to the carbon costs of its decisions, and runs with net zero carbon costs.*

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Stephen Flynn  
Kirsty Blackman

NC3

To move the following Clause—

**“Presentation of funding in Estimates**

ARIA’s funding must be presented as a discrete item in the Supply Estimate presented to Parliament by HM Government.”

***Member’s explanatory statement***

*This new clause is intended to ensure that in the Estimates process, spending on ARIA is transparent and able to be scrutinised.*

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Stephen Flynn  
Kirsty Blackman

NC4

To move the following Clause—

**“Ethical code for investment**

- (1) Within three months of the date of commencement of this Act, the Secretary of State must lay before Parliament a code for ethical investment developed and agreed by ARIA.
- (2) The code of ethics developed by ARIA under subsection (1) must go beyond regulatory requirements and adopt a best practice approach.”

***Member’s explanatory statement***

*This new clause is intended to ensure that ARIA develops a code for ethical investment that goes beyond regulatory requirements and adopts a best practice approach.*

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**Advanced Research and Invention Agency Bill, *continued***

Stephen Flynn  
Kirsty Blackman

NC5

To move the following Clause—

**“Human rights abuses**

No ARIA resources may be used in any way that would contravene human rights.”

***Member’s explanatory statement***

*This new clause is intended to ensure that ARIA is not able to contravene human rights.*

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Chi Onwurah  
Dawn Butler  
Gill Furniss  
Sarah Owen  
Daniel Zeichner

Title, line 1, leave out “Advanced Research and Invention Agency” and insert <sup>1</sup> “Advanced Research and Engineering Projects Agency ”

***Member’s explanatory statement***

*This amendment would modify the long title of the Bill to reflect a change to the name of the Advanced Research and Invention Agency to the Advanced Research and Engineering Projects Agency.*

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ORDER OF THE HOUSE [23 MARCH 2021]

That the following provisions shall apply to the Advanced Research and Invention Agency Bill:

*Committal*

1. The Bill shall be committed to a Public Bill Committee.

*Proceedings in Public Bill Committee*

2. Proceedings in the Public Bill Committee shall (so far as not previously concluded) be brought to a conclusion on Tuesday 27 April 2021.
3. The Public Bill Committee shall have leave to sit twice on the first day on which it meets.

*Proceedings on Consideration and Third Reading*

4. Proceedings on Consideration shall (so far as not previously concluded) be brought to a conclusion one hour before the moment of interruption on the day on which proceedings on Consideration are commenced.
5. Proceedings on Third Reading shall (so far as not previously concluded) be brought to a conclusion at the moment of interruption on that day.

**Advanced Research and Invention Agency Bill, *continued***

6. Standing Order No. 83B (Programming committees) shall not apply to proceedings on Consideration and Third Reading.

*Other proceedings*

7. Any other proceedings on the Bill may be programmed.

## ORDER OF THE COMMITTEE [14 APRIL 2021]

That—

- (1) the Committee shall (in addition to its first meeting at 9.25 am on Wednesday 14 April) meet—
- (a) at 2.00 pm on Wednesday 14 April;
  - (b) at 9.25 am and 2.00 pm on Tuesday 20 April;
  - (c) at 11.30 am and 2.00 pm on Thursday 22 April;
  - (d) at 9.25 am and 2.00 pm on Tuesday 27 April;
- (2) the Committee shall hear oral evidence in accordance with the following Table:

**TABLE**

<i>Date</i>	<i>Time</i>	<i>Witness</i>
Wednesday 14 April	Until no later than 10.25 am	Nesta; UK Research and Innovation
Wednesday 14 April	Until no later than 11.25 am	Professor Philip Bond, University of Manchester; Professor Mariana Mazzucato, University College London; Professor James Wilsdon, University of Sheffield
Wednesday 14 April	Until no later than 3.00 pm	Defense Advanced Research Projects Agency; Wellcome Leap; Professor Pierre Azoulay, MIT
Wednesday 14 April	Until no later than 3.45 pm	Professor Dame Anne Glover, Royal Society of Edinburgh (formerly); Tabitha Goldstaub, CognitionX
Wednesday 14 April	Until no later than 4.30 pm	The Royal Society; Royal Academy of Engineering; Confederation of British Industry
Wednesday 14 April	Until no later than 5.00 pm	David Cleevly, Focal Point Positioning Ltd and the Cambridge Science Centre; Campaign for Science and Engineering

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**Advanced Research and Invention Agency Bill, *continued***

- (3) proceedings on consideration of the Bill in Committee shall be taken in the following order: Clause 1; Schedule 1; Clauses 2 to 7; Schedule 2; Clauses 8 and 9; Schedule 3; Clauses 10 to 15; new Clauses; new Schedules; remaining proceedings on the Bill;
  - (4) the proceedings shall (so far as not previously concluded) be brought to a conclusion at 5.00 pm on Tuesday 27 April.
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