

COMMISSION OF THE EUROPEAN COMMUNITIES

COM(82) 159 final

Brussels, 29 March 1982

AMENDING THE PROPOSAL FOR A COUNCIL DECISION ADOPTING A
RESEARCH AND TRAINING PROGRAMME (1982-1986) IN THE FIELD
OF CONTROLLED THERMONUCLEAR FUSION

(submitted to the Council by the Commission)

COM(82) 159 final

The Commission presented to the Council on 23 July 1981, a Proposal for a Council Decision adopting a research and training programme (1982-1986) in the field of controlled thermonuclear fusion (doc COM(81) 357 final).

The European Parliament, consulted by letter on 24 August 1981 by the President of the Council, has adopted on 12 March 1982 an advice in which it approves this Proposal, provided that the Commission endorses the amendments given in ANNEX (underlined text).

These amendments are essentially in agreement with the recommendations of the "European Fusion Review Panel" (Doc. SEC (81) 1933) and with the motivation of the initial proposal by the Commission.

The Commission, on the basis of article 112 §2 of the Treaty establishing the EAEC, modifies its initial proposal, introducing all the amendments proposed by the Parliament and presents to the Council the Modification given in ANNEX.

1a.

Modification

to the Proposal for a Council Decision
adopting a research and training programme (1982-1986)
in the field of controlled thermonuclear fusion

Initial proposal
(doc. COM(81)357final)

Modified proposal
(amendments are underlined)

Preamble and first Recital unchanged

Second Recital

Whereas, in view of the considerable efforts needed to reach the application stage of controlled thermonuclear fusion, which could be of benefit to the Community, particularly in the wider context of the security of its long-term energy supplies, the various stages of development of the work hitherto undertaken in this field should continue on a joint basis ;

Second Recital

Whereas, in view of the considerable efforts needed to reach the application stage of controlled thermonuclear fusion, which could be of benefit to the Community, particularly in the wider context of the security of its long-term energy supplies, the various stages of development of the work hitherto undertaken in this field should continue on a joint basis , attaching great importance to the strategy of concentrating effort on the Tokamak line and sizeable effort on two alternative lines in magnetic confinement, the reverse field pinch and stellarators, given a periodic reassessment of the reactor relevance of these lines compared with that of the Tokamak ;

Third Recital

Whereas the scientific progress achieved in this field in recent years in the Community and the rest of the world illustrates the need, particularly for Tokamak systems, to construct larger and more complex devices and to concentrate in particular on the development of plasma heating techniques ;

Third Recital

Whereas the scientific progress achieved in this field in recent years in the Community and the rest of the world illustrates the need, particularly for Tokamak systems, to construct larger and more complex devices and to concentrate in particular on the development of plasma heating techniques, attaching greater importance to experiments relating to ignition with compact devices having a high magnetic field, if the feasibility thereof has been proved ;

The other Recitals and the four Articles unchanged

ANNEX

CONTROLLED THERMONUCLEAR FUSION

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| 1. The subject matter of the programme to be executed shall be : | Unchanged |
| (a) plasma physics in the sector concerned, in particular studies of a basic character relating to confinement with suitable devices and to methods for producing and heating plasma ; | Unchanged |
| (b) research into the confinement, in closed configurations, of plasma of widely varying density and temperature ; | Unchanged |

- (c) research into light-matter interactions and transport phenomena and the development of high-power lasers ; Unchanged
- (d) the development and application to confinement devices of sufficient powerful plasma heating methods ; Unchanged
- (e) improvement of diagnostic methods ; Unchanged
- (f) definition of the large device constituting the next step after JET and technological developments required for its design and construction as well as those needed in the longer term for the fusion reactor ; Unchanged
- (g) completion of the construction of the JET device in its basic performance ; extension of JET to full performance ; operation and exploitation of JET. Unchanged

The work referred to in (b) must be pursued having regard to progress elsewhere in the world in order to establish a position for mutual technical exchanges whenever cooperation in a larger international framework takes place.

The remainder of the Annex unchanged