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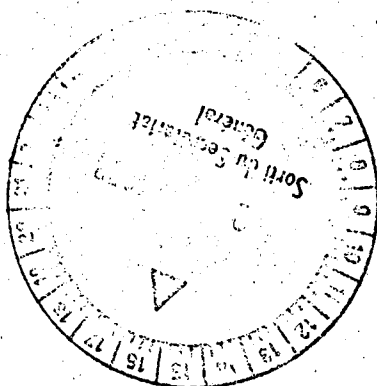
In accordance with Council Regulation (EEC, Euratom) No 354/83 of 1 February 1983 concerning the opening to the public of the historical archives of the European Economic Community and the European Atomic Energy Community (OJ L 43, 15.2.1983, p. 1), as amended by Regulation (EC, Euratom) No 1700/2003 of 22 September 2003 (OJ L 243, 27.9.2003, p. 1), this file is open to the public. Where necessary, classified documents in this file have been declassified in conformity with Article 5 of the aforementioned regulation.

In Übereinstimmung mit der Verordnung (EWG, Euratom) Nr. 354/83 des Rates vom 1. Februar 1983 über die Freigabe der historischen Archive der Europäischen Wirtschaftsgemeinschaft und der Europäischen Atomgemeinschaft (ABl. L 43 vom 15.2.1983, S. 1), geändert durch die Verordnung (EG, Euratom) Nr. 1700/2003 vom 22. September 2003 (ABl. L 243 vom 27.9.2003, S. 1), ist diese Datei der Öffentlichkeit zugänglich. Soweit erforderlich, wurden die Verschlussachen in dieser Datei in Übereinstimmung mit Artikel 5 der genannten Verordnung freigegeben.

KOMMISSIONEN FOR DE EUROPÆISKE FÆLLESSKABER

KOM(78) 683 endelig udg.

Bruxelles, den 11 December 1978



FÆLLESSKABETS FORBINDELSER UDADTIL VERDRØRENDE FORSKNING OG UDVIKLING

(Meddelelse fra Kommissionen til Rådet)

KOM(78) 683 endelig udg.

MEDDELELSE TIL RÅDET FRA KOMMISSIONEN

1. Den 24. juni og den 6. juli 1976 blev der indgået en aftale i form af en brevveksling mellem på den ene side Det europæiske Atomenergifællesskab (EURATOM) og Det europæiske økonomiske Fællesskab og på den anden side Det internationale Energiagentur (IEA) vedrørende samarbejde om energiforskning og -udvikling.

I henhold til brevvekslingen tilkendegav De europæiske Fællesskaber deres hensigt om, i hvert enkelt tilfælde, at forhandle om deltagelse i sådanne gennemførelsesaftaler ("Implementing Agreements"), udarbejdet inden for IEA, som vil bidrage til virkeliggørelse af Fællesskabets FOU-mål. IEA tog for sin del denne hensigt til efterretning og bekræftede, at en sådan deltagelse står åben for Det europæiske Fællesskab.

Under anvendelse af denne aftale er der blevet indgået:

- en gennemførelsesaftale vedrørende udveksling af teknisk information inden for forskning og udvikling vedrørende reaktorsikkerhed,
 - en gennemførelsesaftale vedrørende et kooperativt forsknings- og udviklingsprogram til konstruktion af en intens neutronkilde,
 - en gennemførelsesaftale vedrørende et program til udvikling og afprøvning af solvarme- og solkølesystemer,
 - en gennemførelsesaftale vedrørende et forsknings- og udviklingsprogram til fremstilling af hydrogen ud fra vand,
 - en gennemførelsesaftale vedrørende et forsknings- og udviklingsprogram for vekselvirkningen mellem plasma og væg i "textor",
 - en gennemførelsesaftale vedrørende et forsknings- og udviklingsprogram for superledende magneter til fusionsenergi.
2. Gennemførelsesaftaler tjener som "paraplyaftaler", idet der i dem er fastsat bestemmelser for udførelsen af en række forsknings- og udviklingsopgaver, således som beskrevet i bilagene til hver af de nævnte aftaler. Det er i artikel 2, litra a), angivet, at hver kontraherende part, når en gennemførelsesaftale underskrives, skal bekræfte sin hensigt om at deltage i en eller flere af de i aftalen foreslåede opgaver.
 3. Som ovenfor angivet har Kommissionen allerede underskrevet gennemførelsesaftalen om et forsknings- og udviklingsprogram til fremstilling af hydrogen ud fra vand og deltager i de første tre opgaver under denne aftale, som er
 - Bilag I : Kemoteknisk vurdering af termokemiske processer;

- Bilag II : Grænseflade mellem højtemperaturreaktor (HTR) og termokemisk anlæg (TCP);
- Bilag III: Vurdering af potentielle fremtidige markeder for produktionen af hydrogen ud fra vand.

I det vedlagte dokument kan Rådet finde yderligere to opgaver (benævnt henholdsvis bilag IV og bilag V) under aftalen, som eksekutivkomiteen for gennemførelsesaftalen har foreslået Fællesskabet at underskrive. Det drejer sig om:

- a) Udvikling af avanceret alkalisk og fast polymer vandelektrolyse (bilag IV).
 - b) Fast oxid vanddampelektrolyse (bilag V).
4. Kommissionen anser Fællesskabets deltagelse i bilag IV og V for berettiget af følgende årsager.

Inden for FoU-programmet for fremstilling og brug af hydrogen udgør de aspekter, der vedrører elektrolyse, et betydningsfuldt element i Fællesskabets søgen efter ny teknologi på energiområdet. Både bilag IV og V til IEA-projektet drejer sig ligeledes om forskning vedrørende alkalisk og højtemperatur elektrolyse, som ikke blot komplementerer den, der gennemføres under Fællesskabets eget program, men som også giver rådighed over et helt spektrum af supplerende forskningsmateriale, som kan være nyttigt til fremme af Fællesskabets forskningsmål. Endvidere vil det i bilag IV nævnte arbejde, der udføres med elektrolyse med fast polymer elektrolyt, i betydelig grad supplere Fællesskabets mere begrænsede program på dette område.

5. Hvad udbredelse af oplysninger og intellektuel ejendomsret angår, er det Kommissionens vurdering, at de i såvel bilag IV som i bilag V tiltrådte bestemmelser er acceptable. Faktisk er det deri bestemt, at for så vidt angår oplysninger fra det i disse bilag tilsigtede samarbejde vil statsborgere i alle medlemsstater som følge af Kommissionens deltagelse være berettiget til at opnå licenser på opfindelser og beskyttede oplysninger. Hvad allerede eksisterende oplysninger angår og for at sikre en balance mellem fordele og forpligtelser vil statsborgere fra ikke-deltagende medlemsstater af Fællesskabet kun kunne få allerede eksisterende oplysninger på den betingelse, at de også er rede til at udveksle egne allerede eksisterende oplysninger, en betingelse, som er tiltrådt af alle deltagere i bilagene, herunder de af Fællesskabets medlemsstater, der deltager på egne vegne.

Endelig er det blevet anerkendt, at Kommissionens deltagelse i disse bilag sker til fordel for Fællesskabet som helhed og intet har at gøre med særlige fordele, som enkelte af Fællesskabets medlemsstater, som yder deres eget direkte bidrag til disse bilag, måtte opnå.

6. Hvad de finansielle aspekter angår, ydes deltagernes bidrag til hvert enkelt projekt i form af en "opgave", hvis omkostninger de selv bærer. Kommissionen foreslår i hvert enkelt tilfælde at bidrage med de relevante aspekter af forskning, der hovedsageligt udføres på kontrakt med Kommissionen inden for rammerne af forsknings- og udviklingsprogrammet for produktion af hydrogen ud fra vand (indirekte aktion). Der vil imidlertid blive et mindre bidrag fra Det fælles Forskningscenters eget FoU-program. De samlede udgifter til den forskning, som skal udgøre Fællesskabets bidrag, anslås til omkring 2 582 000 ERE for bilag IV og 309 000 ERE for bilag V, hvoraf Kommissionen vil betale henholdsvis 55% og 50%.

De i Fællesskabets deltagelse involverede kontrahenter har erklæret sig indforstået med Kommissionens deltagelse.

7. Allerede ved indgåelsen af gennemførelsesaftalen vedrørende et program til udvikling og afprøvning af solvarme- og solkølesystemer (1) gav Kommissionen udtryk for, at den i fremtiden, inden den undertegnede lignende former for aftaler, ville orientere Rådet om sin hensigt om at undertegne en sådan aftale og tage eventuelle bemærkninger fra Rådets side til efterretning.
8. Kommissionen meddeler derfor Rådet, at den har til hensigt at deltage i yderligere to opgaver, der betegnes bilag IV og bilag V, og som er nærmere beskrevet i gennemførelsesaftalen vedrørende et forsknings- og udviklingsprogram for produktion af hydrogen ud fra vand.

(1) Rådets afgørelse af 18. juli 1977 (R/1615/77 ATO 62).

ANNEX IV

ADVANCED ALKALINE AND SOLID POLYMER WATER

ELECTROLYSIS DEVELOPMENT

1. OBJECTIVES

(a) Advanced Alkaline Water Electrolysis Development.

The objective of the work to be carried out in this area is to perform basic and applied research to be used by Participants for the development of advanced alkaline electrolysis plants.

(b) Solid Polymer Electrolyte (SPE) Water Electrolysis Development.

The objective of the work to be carried out in this area is to develop basic technology elements such as materials, electrocatalysis and electrolyte materials and to evaluate their performance for extended periods of time under large scale industrial conditions. As a result of the SPE development programme a demonstration module will be designed, developed and tested to meet some specified requirements.

2. MEANS

(a) Advanced Alkaline Water Electrolysis Development.

Each Participant will, in accordance with the following Table, be responsible for carrying out one or more of the Sub-Tasks indicated below:-

- (1) Selection and evaluation of separator materials for high temperature operation (100-200°C);
- (2) Long-term testing of selected separator materials in large-scale equipment;
- (3) Selection and evaluation of electrocatalysts for the Hydrogen and Oxygen Electrode Reactions;
- (4) Long-term testing of selected electrocatalysts in commercial equipment;
- (5) Selection and evaluation of electrode materials and current collectors;
- (6) Selection and evaluation of structural materials;
- (7) Investigations on cell gas and fluid dynamics;
- (8) Optimization of gas-liquid separators.

An overview of the participation in this task is presented in Table I.

TABLE 1

C O U N T R I E S

ADVANCED ALKALINE WATER ELECTROLYSIS DEVELOPMENT

TASK TITLES	BELGIUM	CANADA	E.E.C.	ITALY	JAPAN	NETHERLANDS	SWITZERLAND	UNITED KINGDOM	UNITED STATES
1.1 Selection and Evaluation of Separator Materials for High Temperature Operation 100-200°C		X	X	X	X				X
1.2 Long Term Testing of Promising Separator Materials in Large-Scale Equipment		X		X					X
1.3 Selection and Evaluation of Electrocatalysts for the Hydrogen and Oxygen Electrode Reactions	X	X	X	X	X			X	X
1.4 Long Term Testing of Promising Electrocatalysts in Commercial Equipment		X		X				X	
1.5 Selection and Evaluation of Electrode Materials and Current Collectors	X		X	X		X		X	X
1.6 Selection and Evaluation of Construction Materials (e.g., gaskets, seals, container materials)				X					X
1.7 Investigation of Cell Gas and Fluid Dynamics			X			X			
1.8 Optimization of Gas-Liquid Separators	X		X						

NET MAN. YEARS

5 3,5 16 8 4 1 * 2 5 TOTAL:44,5

* subject to review

(b) Solid Polymer Electrolyte (SPE) Water Electrolysis Development. Each Participant will, in accordance with the following Table, be responsible for carrying out one or more of the Sub-Tasks indicated below:-

- (1) R and D on improved membranes;
- (2) R and D on electrode materials;
- (3) Investigations on electrocatalysts for hydrogen and oxygen electrode reactions;
- (4) Design and construction of 2 100 KW cell units;
- (5) Testing of the 2 100 KW cell units (one in USA, one in Europe);
- (6) Design and construction of an advanced 100 KW cell unit;
- (7) Design, construction and testing of a plant system, to prove the feasibility of meeting the following conditions:

Operating temperature	150°C
Pressure	40 atm
Anode over voltage	200 mv at 10,000 A/m ²
Overall system efficiency	85% (HHV of H ₂ produced/electrical power input)
System capital cost	100\$/kw (equivalent HHV of H ₂ produced)
Minimum module life	40,000 hours
System life	20 years

An overview of the participation in this task is presented in Table 2.

TABLE 2

C O U N T R I E S

SOLID POLYMER ELECTROLYTE (SPE) WATER
ELECTROLYSIS DEVELOPMENT

TASK TITLES	BELGIUM	CANADA	E.E.C.	ITALY	JAPAN	UNITED STATES
2.1 R&D on Improved Membranes	X	X	X	X		X
2.2 R&D on Electrode Materials			X	X	X	X
2.3 Electrocatalysts for H ₂ and O ₂ Evolution	X	X	X	X	X	X
2.4 Design and Fabrication of 100 KW System - 2 Units	X		X	X		
2.5 Testing of 100 KW System (2.4 and 2.6)			X	X		
2.6 Design and Fabrication of Advance 100 KW System						
2.7 Process System and Process Plant Design.	X					
NET MAN YEARS	5	1	6	8	3	10 TOTAL:33

(c) Within the first year of the implementation of this Annex, each Participant will provide to the Operating Agent publications in its possession which have relevance to the objectives of this Task. In addition, each Participant will provide to the Operating Agent copies of such internal reports and working papers resulting from the work outlined in paragraphs 2(a) and 2(b) as may be of interest to the other Participants. Further, each Participant on an annual basis will prepare a progress report on its work underway and submit it to the Operating Agent.

(d) The Operating Agent will compile and submit to the Executive Committee a work programme for the first year. The Executive Committee, acting by unanimity, shall approve a work programme for the first year, no later than three months after signature of this Annex. The work programme (including patent considerations) will outline the respective contributions of each Participant for accomplishing the objectives of the Task.

(e) At the end of the first and second years, a 3-4 day workshop will be held to discuss progress reports and to formulate the next year's detailed work programme. Organization of the workshop shall be the responsibility of the Operating Agent.

(f) Each participant will designate a person to be available to the Operating Agent as the technical contact point for each of the Sub-Tasks undertaken by the Participant pursuant to paragraphs 2(a) and 2(b).

(g) Exchange of researchers between the Participants is anticipated. The initiation of such exchanges will be left to the interested experts of the Participants under detailed arrangements to be agreed upon. The Participants will advise the Operating Agent of all such exchanges, as they occur, and the Operating Agent will compile and distribute to Participants regular reports on such exchanges.

3. TIME SCHEDULE

This is envisioned as a three-year programme to begin on or about 1st January 1979. Annual workshops are planned.

4. RESULTS

The results of these co-operative activities will be:-

(a) Copies of all publications, internal reports and working papers which have been submitted to the Operating Agent in accordance with paragraph 2(c) will be compiled and distributed by the Operating Agent to all Participants, on a regular basis.

(b) At the end of each year and prior to the annual workshop, the Operating Agent will reproduce, collate, and distribute copies of the progress reports prepared by each Participant to all Participants, which will then be used as a basis for discussion at the workshops.

(c) A final report will be prepared by the Operating Agent.

5. RESPONSIBILITIES OF THE OPERATING AGENT

In addition to the responsibilities described in paragraphs 2 and 4 above, the Operating Agent will be responsible for the overall management of this Annex and for implementing actions required by the Executive Committee.

6. BUDGET

(a) Each Participant will bear its own costs in carrying out the Task, including costs of reporting and travel expenses of representatives.

(b) The cost of meeting organization shall be borne by the host country.

7. OPERATING AGENT

The United States Department of Energy acting through the Brookhaven National Laboratory.

8. INFORMATION AND INTELLECTUAL PROPERTY

(a) Executive Committee's Powers. The publication, distribution, handling, protection and ownership of information and intellectual property arising from activities conducted under this Annex shall be determined by the Executive Committee acting by unanimity, in conformity with this Agreement.

(b) The Right to Publish. Subject only to patent and copyright restrictions, the Annex IV Participants shall have the right to publish all information provided to or arising from Annex IV except proprietary information.

(c) Proprietary Information. The Annex IV Participants and the Operating Agent shall take all necessary measures in accordance with this paragraph, the laws of their respective countries and international law to protect proprietary information, provided to or arising from the programme. For the purpose of this paragraph proprietary information shall mean information of a confidential nature such as trade secrets and know-how, (for example, computer programmes, design procedures and techniques, chemical composition of materials, or manufacturing methods, processes or treatment) which is appropriately marked, provided such information:

- (1) Is not generally known or publicly available from other sources;
- (2) Has not previously been made available by the owner to others without obligations concerning its confidentiality; and
- (3) Is not already in the possession of the recipient Annex IV Participant without obligation concerning its confidentiality.

It shall be the responsibility of each Annex IV Participant supplying proprietary information and of the Operating Agent in respect of the arising proprietary information to identify the information as such and to ensure that it is properly marked.

(d) Identification of Information by Governments. The Operating Agent shall encourage the governments of all Agency Participating Countries to make available or identify to the Operating Agent all published or otherwise freely available information known to them that is relevant to the Task.

(e) Identification of Information by Participants. The Annex IV Participants shall identify to the Operating Agent all pre-existing information, and information developed independently of their undertakings in Annex IV, known to the Annex IV Participants which is relevant to the Task and which:

(1) Can be made available to the Task without contractual or legal limitations.

(2) Will or can only be made available to the Task with contractual or legal limitations.

(f) Reports on Work Performed under the Task. The Operating Agent shall provide reports on all work performed under this Task and the results thereof, other than proprietary information, to the Executive Committee.

(g) Arising Inventions. Inventions made or conceived in the course of or under this Task (arising inventions) shall be owned in all countries by the inventing Annex IV Participant. Information regarding inventions on which patent protection is to be obtained by an Annex IV Participant shall not be published or publicly disclosed by the other Annex IV Participant until a patent application has been filed, provided, however, that this restriction on publication or distribution shall not be extended beyond six months from the date of receipt of such information. It shall be the responsibility of the inventing Annex IV Participant or of the Operating Agent to appropriately mark reports which disclose inventions which have not been appropriately protected by the filing of a patent application.

(h) License of Proprietary Information and Patents Needed for Task. Each Annex IV Participant agrees to license all pre-existing proprietary information and pre-existing patents solely owned or controlled by it which are necessary for use in the Task, and all arising proprietary information and inventions covered by patents to any other Annex IV Participant for use in its undertakings in Annex IV only at no cost to the other Participant. If such proprietary information or patents are partially owned or controlled by an Annex IV Participant, then efforts shall be made by the Annex IV Participant to reduce or eliminate as far as possible the benefits that might accrue to it.

(i) License of Proprietary Information and Patents for Other Reasons. Each Annex IV Participant agrees to license all pre-existing proprietary information and patents solely owned or controlled by it which are necessary for practising the results of the undertakings in Annex IV and which have been utilized in the Task, and all arising proprietary information and inventions covered by patents to the other Annex IV Participants, their governments and the nationals of their respective countries designated by them on reasonable terms and conditions for use in all countries for hydrogen production.

The Annex IV Participants agree to license all arising proprietary information and inventions covered by patents to all Agency Participating Countries on reasonable terms and conditions for use in their own country in order to meet their energy needs.

(j) Copyrights. Each Annex IV Participant may and the Operating Agent shall take appropriate measures necessary to protect copyrightable material generated under the Task. Copyrights obtained shall be the property of the Annex IV Participant or the Operating Agent, provided, however, that other Annex IV Participants may reproduce and distribute such material but shall not publish it with a view to profit:

(k) Inventors and Authors. Each Annex IV Participant will, without prejudice to any rights of inventors or authors under its national laws, take all necessary steps to provide the co-operation from its authors and inventors required to carry out the provisions of this Article. Each Annex IV Participant will assume the responsibility to pay awards or compensation required to be paid to its employees according to the laws of its country.

(l) Determination of "National". The Executive Committee may establish guidelines to determine what constitutes a "national" of a Participant. In view of the participation of the Commission of the European Communities, any Member State of the European Communities which is not a Participant under this Annex IV shall be understood to be included as governments and countries in sub-paragraph (i) of this paragraph for purposes of entitlement to a license for arising proprietary information and inventions. Such Member State and its designated nationals who wish to avail themselves of a license for pre-existing proprietary information and patents under sub-paragraph (i) above may elect to do, but must make available at the time of election their proprietary information and patents developed under their programmes which are useful in practicing the Task results under the terms and conditions stated in sub-paragraph (i) above to Annex IV Participants, their governments and the nationals of their respective countries designated by them.

9. PARTICIPANTS IN THIS ANNEX

The Contracting Parties which are Participants in this Annex are the following:-

- The Centre d'Etude de l'Energie Nucléaire (Belgium)
- The Department of Energy Mines & Resources (Canada)
- The Commission of the European Communities
- The Comitato Nazionale per l'Energia Nucleare (Italy)
- The Government of Japan
- The Naamlooze Vennootschap DSM (Netherlands)
- The Government of Switzerland
- The Government of the United Kingdom
- The Department of Energy (United States of America)

ANNEX V
SOLID OXIDE WATER VAPOUR ELECTROLYSIS

1. OBJECTIVES

The objective of this Task is the design, development and demonstration of the engineering feasibility of a small pre-prototype high temperature solid electrolyte water electrolyzer module - (consisting of an assembly of cells in series, connected in parallel banks) - which should be suitable for scaling to larger commercial sizes and able to sustain a life test simulating commercial operation conditions.

2. MEANS

(a) Each participant will, in accordance with the following Table, be responsible for carrying out one or more of the Sub-Tasks indicated below:-

- (1) Selection, evaluation and determination of the possibility to fabricate electrode materials compatible with electrolyte and interconnection materials;
- (2) Selection, fabrication and testing of interconnection materials;
- (3) Design, development, testing and fabrication of multi-cells (3 to 100 cells);
- (4) Development of a conceptual design of a pre-prototype module, and of the related processing steps for its fabrication;
- (5) Design and construction of one or more pre-prototype electrolyzer module(s) and its (or their) testing both as electrolyzer and as fuel cells;
- (6) Testing and evaluation of the possible lifetime of cell components.

An overview of the participation is presented in Table 3.

TABLE 3

SOLID OXIDE WATER VAPOR ELECTROLYSIS DEVELOPMENT

C O U N T R I E S

TASK TITLES	CANADA	E.E.C.	GERMANY	ITALY	SWITZERLAND	UNITED KINGDOM	UNITED STATES
3.1 R&D On Electrolytes	X	X	X	X		X	X
3.2 R&D on Electrode Materials		X	X	X		X	X
3.3 R&D on Interconnection Materials			X	X		X	X
3.4 Multi-Cell Design and Fabrication			X	X			X
3.5 Process Design			X	X			X
3.6 Design and Fabrication of Prototype - 2 Units			X	X			

NET MAN YEARS

0,5 2,5 2 4 * ** 35 6 TOTAL:50 ***

* subject to review

** past work

*** including 35 man years past work UK;
without past work total is 15 man years

(b) Within the first year of the implementation of this Annex, each Participant will provide to the Operating Agent publications in its possession which have relevance to the objectives of this Task. In addition, each Participant will provide to the Operating Agent copies of such internal reports and working papers resulting from the work outlined in paragraph 2(a) as may be of interest to the other Participants. Further, each Participant on an annual basis will prepare a progress report on its work underway and submit it to the Operating Agent.

(c) The Operating Agent will compile and submit to the Executive Committee a work programme for the first year. The Executive Committee, acting by unanimity, shall approve a work programme for the first year, no later than three months after signature of this Annex. The work programme (including patent considerations) will outline the respective contributions of each Participant for accomplishing the objectives of the Task.

(d) At the end of the first and second years, a 3-4 day workshop will be held to discuss progress reports and to formulate the next year's detailed work programme. Organization of the workshop shall be the responsibility of the Operating Agent.

(e) Each Participant will designate a person to be available to the Operating Agent as the technical contact point for each of the Sub-Tasks undertaken by the Participant pursuant to paragraph 2(a).

(f) Exchange of researchers between the Participants is anticipated. The initiation of such exchanges will be left to the interested experts of the Participants under detailed arrangements to be agreed upon. The Participants will advise the Operating Agent of all such exchanges, as they occur, and the Operating Agent will compile and distribute to Participants regular reports on such exchanges.

- 4 -

3. TIME SCHEDULE

This is envisioned as a three year programme to begin on or about 1st January 1979. Annual workshops are planned.

4. RESULTS

The results of these co-operative activities will be:

(a) Copies of all publications, internal reports and working papers which have been submitted to the Operating Agent in accordance with paragraph 2(b) will be compiled and distributed by the Operating Agent to all Participants, on a regular basis.

(b) At the end of each year and prior to the annual workshop, the Operating Agent will reproduce, collate, and distribute copies of the progress reports prepared by each Participant to all Participants, which will then be used as a basis for discussion at the workshops.

(c) A final report will be prepared by the Operating Agent.

5. RESPONSIBILITIES OF THE OPERATING AGENT

In addition to the responsibilities described in paragraphs 2 and 4 above, the Operating Agent will be responsible for the overall management of this Annex and for implementing actions required by the Executive Committee.

6. BUDGET

(a) Each Participant will bear its own costs in carrying out the Task, including costs of reporting and travel expenses of representatives.

(b) The cost of meeting organization shall be borne by the host country.

7. OPERATING AGENT

..... (*)

(*) Confirmation of the Operating Agent is to be expected in the next few weeks.

.../...

8. INFORMATION AND INTELLECTUAL PROPERTY

(a) Executive Committee's Powers. The publication, distribution, handling, protection and ownership of information and intellectual property arising from activities conducted under this Annex shall be determined by the Executive Committee acting by unanimity, in conformity with this Agreement.

(b) The Right to Publish. Subject only to patent and copyright restrictions, the Annex V Participants shall have the right to publish all information provided to or arising from Annex V except proprietary information.

(c) Proprietary Information. The Annex V Participants and the Operating Agent shall take all necessary measures in accordance with this paragraph, the laws of their respective countries and international law to protect proprietary information, provided to or arising from the programme. For the purpose of this paragraph proprietary information shall mean information of a confidential nature such as trade secrets and know-how (for example, computer programmes, design procedures and techniques, chemical composition of materials, or manufacturing methods, processes or treatment) which is appropriately marked, provided such information:

- (1) Is not generally known or publicly available from other sources;
- (2) Has not previously been made available by the owner to others without obligations concerning its confidentiality; and
- (3) Is not already in the possession of the recipient Annex V Participant without obligation concerning its confidentiality.

It shall be the responsibility of each Annex V Participant supplying proprietary information and of the Operating Agent in respect of the arising proprietary information to identify the information as such and to ensure that it is properly marked.

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- (1) Can be made available to the Task without contractual or legal limitations.
- (2) Will or can only be made available to the Task with contractual or legal limitations.

(f) Reports on Work Performed under the Task. The Operating Agent shall provide reports on all work performed under this Task and the results thereof, other than proprietary information, to the Executive Committee.

(g) Arising Inventions. Inventions made or conceived in the course of or under this Task (arising inventions) shall be owned in all countries by the inventing Annex V Participant. Information regarding inventions on which patent protection is to be obtained by an Annex V Participant shall not be published or publicly disclosed by the other Annex V Participant until a patent application has been filed, provided, however, that this restriction on publication or distribution shall not be extended beyond six months from the date of receipt of such information. It shall be the responsibility of the inventing Annex V Participant or of the Operating Agent to appropriately mark reports which disclose inventions which have not been appropriately protected by the filing of a patent application.

(h) License of Proprietary Information and Patents Needed for Task. Each Annex V Participant agrees to license all pre-existing proprietary information and pre-existing patents solely owned or controlled by it which are necessary for use in the Task, and all arising proprietary information and inventions covered by patents to any other Annex V Participant for use in its undertakings in Annex V only at no cost to the other Participant. If such proprietary information or patents are partially owned or controlled by an Annex V Participant, then efforts shall be made by the Annex V Participant to reduce or eliminate as far as possible the benefits that might accrue to it.

(i) License of Proprietary Information and Patents for Other Reasons. Each Annex V Participant agrees to license all pre-existing proprietary information and patents solely owned or controlled by it which are necessary for practicing the results of the undertakings in Annex V and which have been utilized in the Task, and all arising proprietary information and inventions covered by patents to the other Annex V Participants, their governments and the nationals of their respective countries designated by them on reasonable terms and conditions for use in all countries for hydrogen production.

The Annex V Participants agree to license all arising proprietary information and inventions covered by patents to all Agency Participating Countries on reasonable terms and conditions for use in their own country in order to meet their energy needs.

(j) Copyrights. Each Annex V Participant may and the Operating Agent shall take appropriate measures necessary to protect copyrightable material generated under the Task. Copyrights obtained shall be the property of the Annex V Participant or the Operating Agent, provided, however, that other Annex V Participants may reproduce and distribute such material, but shall not publish it with a view to profit.

(k) Inventors and Authors. Each Annex V Participant will, without prejudice to any rights of inventors or authors under its national laws, take all necessary steps to provide the co-operation from its authors and inventors required to carry out the provisions of this Article. Each Annex V Participant will assume the responsibility to pay awards or compensation required to be paid to its employees according to the laws of its country.

(l) Determination of "National". The Executive Committee may establish guidelines to determine what constitutes a "national" of a Participant. In view of the participation of the Commission of the European Communities, any Member State of the European Communities which is not a Participant under this Annex V shall be understood to be included as governments and countries in sub-paragraph (i) of this paragraph for purposes of entitlement to a license for arising proprietary information and inventions. Such Member State and its designated nationals who wish to avail themselves of a license for pre-existing proprietary information and patents under sub-paragraph (i) above may elect to do, but must make available at the time of election their proprietary information and patents developed under their programmes which are useful in practicing the Task results under the terms and conditions stated in sub-paragraph (i) above to Annex V Participants, their governments and the nationals of their respective countries designated by them.

9. PARTICIPANTS IN THIS ANNEX

The Contracting Parties which are Participants in this Annex are the following:-

The Department of Energy Mines & Resources (Canada)

The Commission of the European Communities

The Kernforschungsanlage Jülich GmbH (Germany)

The Comitato Nazionale per l'Energia Nucleare (Italy)

The Government of Switzerland

The Government of the United Kingdom

The Department of Energy (United States of America).