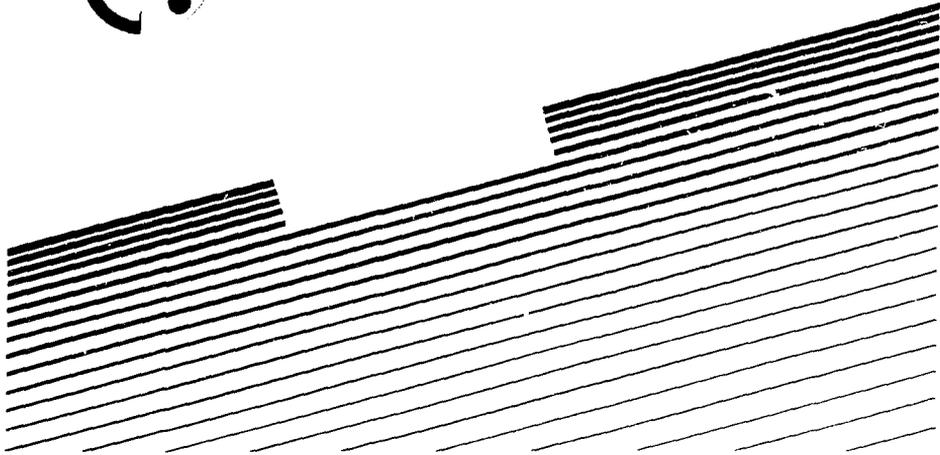


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ITER EDA DOCUMENTATION SERIES No. 3

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ITER COUNCIL PROCEEDINGS: 1992





Participants in the First ITER Council Meeting, Vienna, 10-11 September 1993

ITER EDA DOCUMENTATION SERIES No. 3

International Thermonuclear Experimental Reactor
(ITER)

Engineering Design Activities
(EDA)

**ITER
COUNCIL PROCEEDINGS: 1992**

INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1994

ITER COUNCIL PROCEEDINGS: 1992
IAEA, VIENNA, 1994
IAEA/ITER EDA/DS/3

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FOREWORD

Development of nuclear fusion as a practical energy source could provide great benefits. This fact has been widely recognized and fusion research has enjoyed a high level of international co-operation. Since early in its history, the International Atomic Energy Agency has actively promoted the international exchange of fusion information.

In this context, the IAEA responded in 1986 to calls at summit level for expansion of international co-operation in fusion energy development. At the invitation of the Director General there was a series of meetings in Vienna during 1987, at which representatives of the world's four major fusion programmes developed a detailed proposal for co-operation on the International Thermonuclear Experimental Reactor (ITER) Conceptual Design Activities (CDA). The Director General then invited each interested party to co-operate in the CDA in accordance with the Terms of Reference that had been worked out. All four Parties accepted this invitation.

The ITER CDA, under the auspices of the IAEA, began in April 1988 and were successfully completed in December 1990. The information produced within the CDA has been made available for the ITER Parties and IAEA Member States to use either in their own programme or as part of an international collaboration.

After completing the CDA, the ITER Parties entered into a series of consultations on how ITER should proceed further, resulting in the signing of the ITER EDA (Engineering Design Activities) Agreement and Protocol 1 on July 21, 1992 in Washington by representatives of the four Parties. The Agreement entered into force upon signature of the Parties and shall remain in force for six years, with the EDA being conducted under the auspices of the IAEA.

As part of its support of ITER, the IAEA is pleased to publish the documents summarizing the results of the Engineering Design Activities.

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INTRODUCTION

At the signing of the ITER EDA Agreement on July 21, 1992, each of the Parties presented to the Director General the names of their designated members of the ITER Council. Upon receiving those names, the Director General stated that the ITER Engineering Design Activities were "ready to begin". The next step in this process was the convening of the first meeting of the ITER Council.

The first meeting of the Council, held in Vienna, was opened by Director General Hans Blix. The second meeting was held in Moscow, the formal seat of the Council.

This volume presents records of these first two Council meetings and, together with the previous volumes on the text of the Agreement and Protocol 1 and the preparations for their signing respectively, represents essential information on the evolution of the ITER EDA.

**DOCUMENTS
OF THE FIRST ITER COUNCIL (IC-1) MEETING
10-11 SEPTEMBER 1992, VIENNA**

**RECORD OF DECISIONS
TAKEN BY THE ITER COUNCIL AT ITS FIRST MEETING
10-11 September 1992, Vienna**

Agenda No.

- The meeting was attended by the ITER Parties' Delegations listed in IC-1 ROD Attachment 1.
3. Acad. E.Velikhov as Chair and Dr.M.Yoshikawa as Co-Chair, have been elected.
4. The Agenda was adopted (IC-1 ROD Attachment 2).
5. The Council appointed Dr. P.-H.Rebut as the Director.
- 6.1 V.Vlasenkov was asked to assist the Chair and his tasks.
- 6.2 The Delegations identified Contact Persons (CPs), namely Drs. E.Canobbio (EC), L.Golubchikov (RF), A.Kitsunezaki (JA), and M.Roberts (US). The IC agreed that there should be a point of contact with the JCT (M.Drew).
- 6.3 The CPs were asked to assist Mr. V.Vlasenkov in reviewing substantive points.
- 7.1 Deputy Directors and Heads of Co-Centers were appointed as follows:
- From EC, Dr. Michel Huguet as Deputy Director and Head of the Co-centre in Naka, from JA, Dr. Yasuo Shimomura as Deputy Director and Deputy to the Director, from RF, Dr. Valery Chuyanov as Deputy Director and Head of the Co-centre in San Diego, and from US, Dr. Ronald Parker as Deputy Director and Head of the Co-centre in Garching.
- 7.2 The Council decided that an Administrative Officer will be appointed following the proposal of the Director after consultations with the Parties.
8. The Parties have designated their Home Team Leaders. They are:
- Dr. A.Glass (US)
Dr. O.G.Filatov (RF)
Dr. S.Matsuda (JA)
Prof. R.Toschi (EC)
9. Dr. P.Rutherford has been appointed as Chair of TAC. The Council invites the Secretary to convey to the TAC Chair the Council's suggestions with respect to the TAC Rules of Procedure.
- 10.1 The Council appointed Dr. M.Yoshikawa as Chair of MAC.
- 10.2 The Council assigned Initial MAC Tasks (IC-1 ROD Attachment 4).
- 11.1 Acad. D.Ryutov was appointed Chair of SWG-1.

Agenda No.

- 11.2 Dr. M.Roberts was appointed Chair of SWG-2.
- 11.3 The Council decided that the Director presents his views on both the SWG-1 and SWG-2 tasks, but does not get involved in the negotiations and drafting of findings.
- 11.4 The Council asked SWG Chairs to use the draft Rules of Procedure provisionally and to bring in for Council approval final Rules of Procedure at IC-2.
- 11.5 The Council provided Further Guidelines for SWG-1 (IC-1 ROD Attachment 3).
- 13.1 The Council agrees that the Parties should provide a total of 150 professionals to the JCT by the end of Protocol 1, with the buildup done as fast as possible.
- 13.2 The Council accepted the Director's proposals regarding the Main Structure of the JCT at each JWS and functions of the Deputy Directors (IC-1 ROD Attachment 5).
- 14.1 The Council invited the Director to consult with the Parties and present his proposal for host support.
- 14.2 The Council asked Dr. E.Canobbio, M.Chaplinsky, M.Drew, S.Hino and Dr. M.Roberts (Chair), consulting with the Director to address the issues of facilitations and privileges with competent authorities and to report at IC-2.
- 15.1 The Council approved the Staff Selection Procedures proposed by the Director (IC-1 ROD Attachment 6).
- 15.2 The Council confirmed that the interpretation of the term "ITER EDA Personnel" applies only to members of the Council, MAC and TAC, SWG-1 and 2, the Director, all designated experts and Secretaries, the JCT and those persons working in the Home Teams including personnel involved in arrangements in accordance with Article 19.
- 15.3 The Council accepted the draft Agreement prepared by the WG as a basis for the Secondment Agreement
- 16. The Council invited the Director to consult with the TAC and MAC regarding proposals to initiate urgent ITER tasks before the Work Programme is adopted and subsequently to present proposals on these matters to IC-2.
- 17. The Director will submit to the IC-2 meeting proposals on travel arrangements and related matters.
- 18. The Council determined the suggested List of Assistance Tasks to be discussed with the IAEA (IC-1 ROD Attachment 7).
- 19.1 The Council decided the interpretation of Article 19 that the involvement of individual scientists and engineers in the execution of the work of one of the Parties does not constitute involvement of an "Other Country".

Agenda No.

- 19.2 The Council asked the CPs to explore the involvement of institutions from other countries.
- 20.1 The Council adopted its Rules of Procedure (IC-1 ROD Attachment 8).
- 20.2 V. Vlasenko^{ov} was appointed as Council Secretary.
- 21.1 The Council asked the CPs to recommend detailed approaches to the logo, flags, etc. matters.
- 21.2 The Council asked the CPs to review the suggested list of contents of the red-cover document.
- 21.3 The Director was asked to prepare for IC-2 a set of publication guidelines for technical documents.
- 21.4 IC asked the Director in conjunction with the CPs to discuss with the IAEA and the Host Parties the options for publishing ITER documents.
- 22.1 The draft tentative Agenda for the IC-2 Meeting was accepted (IC-1 ROD Attachment 9).
- 22.2 IC agreed on the two understandings raised by JA.
- 22.3 The Council accepted the Press Guideline for use by the IAEA and the Parties (IC-1 ROD Attachment 10).
- 23. The Council decided that IC-2 meeting will take place in Moscow on 15-16 December 1992.
The Council decided that IC-3 and 4 will take place on 21-22 April 1993 and 27-28 October 1993 respectively and IC-5 tentatively in March 1994. The locations for each meeting will be determined at the previous meeting. It is understood that JA has offered to host IC-3, US IC-4 and EC IC-5.
- 24. Council approves the Record of IC Decisions at IC-1.

**FIRST ITER COUNCIL MEETING
LIST OF ATTENDEES**

EC

Amb. Dr. D. Hammer (opening session)	Permanent Mission, Vienna
Dr. R. Aymar	CEA, Paris
Dr. E. Canobbio	CEC, Brussels
Prof. P. Fasella	like above
Dr. C. Maisonnier	like above
Prof. K. Pinkau	IPP, Garching
Prof. R. Toschi	NET Team, Garching
Dr. P.H. Rebut	JET, Abingdon
Mr. M. Drew	JET, Abingdon

JA

Amb. K. Kume (opening session)	Permanent Mission, Vienna
Mr. K. Okimura	STA, Tokyo
Dr. M. Yoshikawa	JAERI, Tokyo
Mr. S. Aoyama	STA, Tokyo
Dr. T. Hirayama	JAERI, Tokyo
Dr. H. Kishimoto	like above
Dr. A. Kitsunozaki	JAERI, Naka
Dr. S. Matsuda	like above
Dr. K. Miya	Univ. of Tokyo
Dr. S. Mori	JAERI, Tokyo
Dr. Y. Shimomura	JAERI, Naka

RF

Dr. M.P. Beliakov (opening session)	Permanent Mission, Vienna
Dr. Yu.G. Balasanov	MAE, Moscow
Mr. M.M. Chaplinsky	MFA, Moscow
Dr. N.S. Cheverev	MAE, Moscow

RF (cont'd.)

Dr. V.A. Chuyanov	Kurchatov Inst., Moscow
Dr. O.G. Filatov	NPO Elektrophysika,
Dr. L.G. Golubchikov	MAE, Moscow
Acad. B.B. Kadomtsev	Kurchatov Inst., Moscow
Dr. D.B. Korolev	MAE, Moscow
Acad. D.D. Ryutov	Budker Inst., Novosibirsk
Acad. E.P. Velikhov	Kurchatov Inst., Moscow
Dr. V.S. Vlasenkov	like above

US

Counsellor Dr. M. Lawrence (opening session) Permanent Mission, Vienna

Dr. N.A. Davies	DOE, Washington
Dr. J.F. Decker	like above
Dr. T.R. James	like above
Dr. C. Newstead	State Department, Washington
Dr. A.L. Opdenaker	DOE, Washington
Dr. M. Roberts	like above
Ms. C. Torquato	like above

IAEA

Dr. D. Banner
Dr. H. Blix (opening session)
Dr. A. Cuaron (opening session, representing Dr. S. Machi)
Dr. B. Kouvchinnikov

AGENDA
OF THE FIRST ITER COUNCIL MEETING
Vienna, VIC
10-11 September 1992

- 1 Welcome from Host and Introductory Remarks from IAEA
- 2 Opening Remarks from Parties' Delegations and Introduction of ITER Council Members
- 3 Election of Chair and Co-Chair
- 4 Adoption of the Agenda
- 5 Appointment of the Director

Consultations

- 6 Organizational Arrangements for this Meeting
- 7-9 Appointment of Deputy Directors, Co-center Heads and Administrative Officer; Designation of Home Team Leaders; Technical Advisory Committee
- 10 Management Advisory Committee
- 11 Special Working Groups

Lunch

- 12 Home Team Organization
- 13 Size and Main Structure of the Joint Central Team
- 14 Host Support

Break

- 15 Staff Selection Procedures and Secondment Agreements
- 16 Work Program and Workshops
- 17 Joint Fund and Related Issues

Consultations

- 18 Assistance from IAEA
- 19 Involvement of Other Countries
- 20 Rules of Procedure for IC Including Secretary

Break

- 21 Reports, Documentation and Publications
- 22 Other Business

Lunch

- 10 MAC Tasks
 - 23 IC's Meeting Dates and Locations
 - 24 Record of IC Decisions
- Adjourn

GUIDELINE FOR SWG-1

The IC recommends as a general guideline for SWG-1 that detailed technical objectives and technical approaches including appropriate safety margins, should be compatible with the aim of maintaining the cost of the device within the limits comparable to those indicated in the final report of the ITER CDA as well as keeping its impact in the long-range fusion program.

The IC asks the Director to present an outline of the design within about 10 months, at the time when a draft agreement of Protocol 2 should have been prepared by SWG-2.

POSSIBLE INITIAL MAC TASKS

1. Review and advise on size of the JCT at each Co-center.
2. Review/investigate arrangements for the Joint Fund
3. Review/investigate condition on *involvement of other countries*
4. Review the urgent tasks proposed by the Director
5. Review the work program when available, so that MAC advice can be reported to IC for approval
6. Review the publishing guidelines when available

MAIN STRUCTURE OF THE ITER JOINT CENTRAL TEAM

The Main Structure at each Joint Work Site

1. As required under Article 8 of the ITER EDA Agreement, this paper presents the ITER Director's proposals for the Main Structure of the ITER Joint Central Team at each joint Work Site and for the functions of the Deputy Directors. The proposals have been formulated in consultation with the Deputy Directors of the ITER Joint Central Team.
2. The ITER Director's proposals for the main structure of the Joint Central Team at each co-centre are summarised in Appendix 1 of this paper. The overall structure and allocation of tasks to each of the co-centres is in line with the framework of understandings regarding the general missions of the co-centres.
3. The proposed structure comprises three main operating Divisions located at each of the co-centres. The general tasks for the Divisions at each co-centre are as follows:

Garching

Vacuum Vessel and Blanket Division (including the associated remote handling)
Divertor and Plasma Interface Division
In Vessel Ancillaries Division

Naka

Superconducting Coils and Structure Division
Plasma and Field Control Division
Nuclear Technology Division (including remote handling transporters and common technologies)

San Diego

Design Integration Division
Nuclear Integration Division
Engineering Division

4. As well as the main Divisions, a number of smaller units are proposed at each of the co-centres some of which (e.g. Q.A., Drawing Offices, Administration) will involve horizontal functions across the 3-site structure. The ITER Director also proposes to establish a Physics Integration Unit which will report directly to him.

5. Within the proposed main structure, and taking account of the general principle of equality of the Parties, it will be important to retain some flexibility over the detailed allocation of tasks and subtasks. As the engineering design activities progress, some evolution of the situation may be expected in response to the needs of the programme and to the relative capacity and work loads throughout the Joint Central Team.

Nomination of Candidates for Heads of Divisions

6. To ensure an effective start-up to the technical work of the ITER EDA, it is important that the Heads of the Divisions be selected as quickly as possible. In line with Article 8 (2) of the ITER EDA Agreement, and subject to the approval of the proposed main structure for the Joint Central Team, the ITER Director would wish to invite the ITER parties to submit to him their nominations of qualified candidates for the Division Head posts without delay.

Functions of the Deputy Directors

7. The proposed structure of the ITER Joint Central Team defines line management responsibilities of the Deputy Directors. In particular the Heads of the Garching and Naka Centres will be expected to direct and coordinate the work of the three Divisions located at each site, within agreed policies. At San Diego, the Head of the Co-centre will take responsibility for the work of the Nuclear Integration Division and Engineering Division. The proposed Deputy to the Director will have responsibility for the Design Integration Division.

8. In addition the Deputy Directors would assist the ITER Director in elaborating the programme and the management policies to be adopted within the Joint Central Team and to define the technical and scientific choices for ITER.

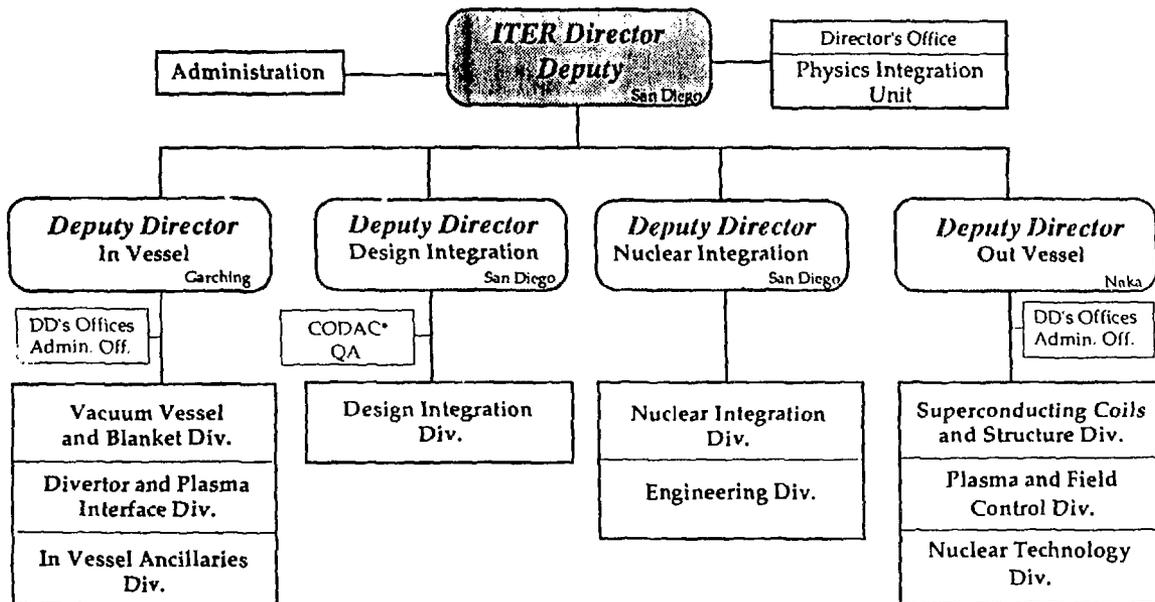
Recommendation

9. The ITER Council is invited:

- 1) to agree the proposals of the ITER Director for the Main Structure of the Joint Central Team at each Joint Work Site, as set out in Appendix 1 of this paper;

- 2) subject to the approval of the above, to note the ITER Director's invitation to the ITER Partners to submit to him their nominations of qualified candidates for the posts of Head of Division;
- 3) to agree the proposed functions of the Deputy Directors of the Joint Central Team as set out in paragraphs 7 and 8 of this paper

Main Structure of the ITER Joint Central Team during EDA



* CODAC Control Command and Data Acquisition, Communication

STAFF SELECTION PROCEDURES
FOR THE ITER JOINT CENTRAL TEAM

1. This paper sets out for decision by the ITER Council, under Annex A (1,b) of the ITER EDA Agreement, proposals by the ITER Director for the staff selection procedures of members of the ITER Joint Central Team (JCT). The proposals have been formulated in consultation with the Deputy Directors of the ITER JCT.
2. According to Article 8(2) and after the approval of the ITER Council of the size and main structure of the ITER JCT, members of the ITER JCT, other than the Deputy Directors, Heads of Joint Work Sites and an Administrative Officer, will be chosen by the Director from among qualified persons nominated by the Parties.
3. To facilitate the Parties' preselection of candidates, lists of general skills and disciplines required or of specific posts will be drawn up. The Director will send these lists to each Party.
4. The ITER Director would request that each Party should aim to provide corresponding lists of suitable candidates for the ITER JCT (together with summary c.v.'s) within two months of the receipt of such lists.
5. As specific staffing requirements are determined, suitable candidates from the Parties' lists will be invited for interview. Each candidate would normally be interviewed by a group of three members of the ITER JCT, in general comprising the potential leader, his superior and another JCT member at the same hierarchical level as the potential leader.
6. The candidate's qualifications for a post in the JCT will be assessed during the interview. The interview reports will be transmitted to the Director.
7. Following Article 8(2) of the ITER EDA Agreement, the ITER Director will chose from among the candidates interviewed on the basis of the suitability of the candidates while having due regard to the principle of equality of the Parties. The selection decision will be notified to the appropriate Parties. Following agreement regarding the starting date of the assignment to the JCT, the Parties will make known the result to all the candidates proposed.

RECOMMENDATION

The ITER Council is invited:

- 1) to approve the procedures proposed by the ITER Director for the selection of members of the ITER Joint Central Team;
- 2) to endorse the request of the ITER Director that each Party should aim to provide lists of suitable candidates for posts in the ITER Joint Central Team within two months of the receipt of requests from the ITER Director.

**POSSIBLE IAEA ASSISTANCE FUNCTIONS
DURING ITER EDA**

- 1) Providing auspices for the ITER EDA
- 2) Facilitating the resolution of personnel status issues associated with privileges and immunities in Host Party countries
- 3) Providing meeting and office space for ITER activities in Vienna together with required secretariat and other support services
- 4) Providing assistance to the ITER activities in arranging the following functions:
 - a) organization of ITER meetings,
 - b) publishing and distributing ITER reports, and
 - c) maintaining a library of ITER documents
- 5) Editing, printing and distributing the ITER Newsletter
- 6) Providing a forum for presentation of ITER results at the IAEA Conference on Plasma Physics and Controlled Thermonuclear Fusion Research
- 7) Providing assistance in ensuring rapid communications between individual teams of the Parties

It should be noted that the functions listed above are in essence of the same nature as the IAEA assistance functions carried out during the ITER CDA.

RULES OF PROCEDURE FOR THE ITER COUNCIL DURING THE ENGINEERING DESIGN ACTIVITIES

The charter for the Council is contained in Article 4 of the Agreement repeated below.

ARTICLE 4 COUNCIL

- (1) The Parties shall establish a Council which shall act by unanimity. Each Party shall designate two members of the Council. The Council shall elect its Chair and Co-Chair from among its members and adopt its rules of procedure.
- (2) The Council shall meet at least twice a year at places it selects and may have extraordinary meetings which the Chair shall convene at the request of a Council member or the Director provided for in Article 5. The Director shall normally attend the meetings.
- (3) The Council shall have the responsibility for the overall direction of EDA and shall exercise overall supervision of its execution. The Council shall report to the Parties.
- (4) The functions of the Council are elaborated in Annex A,1.

Annex A,1. to the Agreement contains a summary of the Council's functions stated in the Agreement and is repeated at the end of this document.

The following Rules of Procedure, approved by the Council, are supplementary to Article 4 and Annex A,1.

ARTICLE 1 MEMBERSHIP

- 1.1 The two members designated by each Party shall form a delegation.
- 1.2 If a member cannot attend a meeting of the Council, another member may be designated by that member's Party for that meeting. The Chair and the Co-Chair, as well as the Secretary, provided in Article 2.3, shall be notified before the meeting of the participation of any newly designated members.

ARTICLE 2 ORGANIZATION

- 2.1 If the Chair is unable to be present at a given meeting, the Co-Chair will act in his stead. If both the Chair and the Co-Chair are unable to attend, the meeting shall be rescheduled unless there is an accepted urgency in which case the meeting shall be chaired by a member elected by the Council for that meeting.
- 2.2 In the remainder of these Rules of Procedure, the term "Chair" is deemed to mean "Chair, acting in close consultation with the Co-Chair", where appropriate.

2.3 The Chair shall appoint a Secretary.

2.4 Each delegation shall appoint a contact person to facilitate communications.

ARTICLE 3 MEETING ARRANGEMENTS

3.1 The Secretary shall send a draft agenda, approved by the Chair, to the members and the Director as well as the appropriate IAEA Official at least 20 days before the date of the meeting. In transmitting the agenda, the Secretary shall also include relevant working papers.

3.2 Meetings of Council require that at least one member from each Party's delegation be present.

3.3 The IAEA may be represented at the meetings. Advisors may accompany each Party's delegation subject to prior notification to the Chair. The Council may invite experts to provide it with specific information. In such cases, these experts shall receive invitations tendered by the Secretary upon the request of the Chair after consulting with the Co-Chair and the other members.

ARTICLE 4 MEETING PROCEDURES

4.1 At each meeting, the agenda for the meeting will be reviewed and amended as necessary.

4.2 Participation in the discussions by non-members shall be decided by the Council. The meeting is not open to the public.

4.3 Decisions of the Council shall be taken by positive assent or by the absence of any delegation's negative view following discussion at the meeting. When taking decisions, each delegation shall speak with one voice.

4.4 Decisions of the Council shall be drafted by the Secretary for the Delegations' review, using the contact persons to facilitate such review, and such texts shall be approved by the Council during the meeting at which they are taken.

4.5 The contact persons shall act as each delegation's point of contact for tasks assigned by the Chair, unless other arrangements are made.

ARTICLE 5 MINUTES

5.1 The Secretary shall draft minutes of each meeting. The minutes shall include all decisions taken by Council in accordance with Articles 4.3 and 4.4. The minutes and related documents shall be properly numbered.

5.2 After review by the Chair, the Secretary shall, within 20 days after the meeting, submit the draft minutes to the members of Council for their approval. The minutes shall be deemed approved if no comments are received from the delegations by the Secretary within 30 days of their transmittal. If the minutes are not approved in accordance with this procedure, they shall be discussed and approved at the next meeting.

5.3 The approved minutes shall then be prepared by the Secretary and signed by the Chair and Co-Chair. The Secretary shall send to the members of the Council, to the

Director, to members of the MAC, to the Chairs of the TAC and each Special Working Group, and to the appropriate IAEA official, a copy of the minutes within 10 days after their approval.

5.4 The approved minutes shall be maintained on file by the Secretary at each of the Co-Centers.

5.5 The Secretary shall circulate the decisions noted in 4.4 to the members of the Council, to the Director, to the Home Team Leaders and to the Chairs of the MAC and TAC within 10 days after each meeting.

ARTICLE 6 **ACTIONS**

6.1 The Council may decide that proposals submitted to and discussed by the Council but not decided upon at that meeting shall be deemed to have been approved if the Secretary has not received notification of objection from any delegation within a period of time to be fixed by the Council on a case-by-case basis.

6.2 Between meetings, the Chair, acting through the Secretary, may transmit proposals to the members in writing with a view to taking a decision. The Secretary may consider the contact persons as the points of contact to the members, unless other specific arrangements are made. If the Secretary receives written notification either of agreement or of absence of objection to the proposal by all of the delegations within a period of time fixed by the Council on a case-by-case basis, then the proposal shall be made effective.

6.3 If a proposal is not approved in accordance with the procedure specified in Articles 6.1 and 6.2, it shall, upon request of the proposer, be discussed and decided upon at the next meeting.

6.4 In the case of paragraphs 6.1 and 6.2, the Secretary shall immediately inform the members of the Council of the results in writing and shall report on these results at the next meeting and include this report in the minutes of that next meeting.

6.5 Between meetings, the Chair and Co-Chair as well as other members as specifically designated by the Council may act on behalf of the Council in fulfillment of Council intentions developed at the meetings.

DRAFT
AGENDA FOR IC-2 MEETING
MOSCOW, 15-16 DECEMBER 1992

1. Reports on startup of the EDA by the Director
2. Reports, with follow-on discussion, from the SWGs 1 + 2 by the Chairs of these two Groups
3. Presentation by the Director of the preliminary version of the Work Program and the near-term Work Program, including schedule, cost base, and task assignment proposals
4. Report on Staffing by the Director
5. Consideration of Host Support upon recommendations from the Director
6. Nomination of the Administrative Officer, if proposed by the Director
7. Review of progress toward actions of the activities listed in Article 2
8. Guidelines for publications of technical documents as proposed by Director
9. Approval of Rules of Procedure as recommended by TAC and MAC, and by Chairs of SWGs
10. Initial tasks, if any, for TAC
11. Report from MAC on initial tasks, if any
12. Additional tasks, if any, for MAC
13. Consideration of response from IAEA with regard to assistance to ITER
14. Report by a Special Group on facilitations of privileges
15. Report by CPs on the matters related to Joint Fund
16. Report on the travel arrangements and related matters by the Director
17. *Other business*

PRESS GUIDELINE

for use by the IAEA and the Parties of the ITER EDA

1. Delegations from the four ITER Parties, the European Community (EC), Japan (JA), Russian Federation (RF), and the United States (US), met at IAEA Headquarters on September 10 and 11, 1992 to initiate the ITER Engineering Design Activities (EDA). The EDA is conducted under the terms of the ITER EDA Agreement and Protocol 1 which were signed on July 21, 1992 in Washington, DC. Dr. Hans Blix, Director General of the IAEA under whose auspices the quadripartite ITER collaboration is taking place, presided over the opening session. Dr. Blix welcomed the Parties to Vienna and expressed the Agency's willingness to assist the Parties in their joint effort to develop a new source of energy for all humankind.
2. The leaders of the four delegations were Ambassador D. Hammer, Head of the Delegation of the Commission of the European Communities to the International Organizations in Vienna, Ambassador Extraordinary and Plenipotentiary K. Kume, Head of the Permanent Mission of Japan to the International Organizations in Vienna, Acting Ambassador M.P. Beliakov, Head of the Permanent Mission of the Russian Federation to the International Organizations in Vienna, and Counsellor Michael Lawrence, for Ambassador Jane Becker, Head of the United States Mission to the United Nations System Organizations in Vienna. Reaffirming the principle of equality of the Parties with regard to their status in, contributions to, and benefits from the collaboration, each of the delegation leaders made statements about the importance of ITER to their domestic fusion programs, the strength of their Party's commitment to the successful completion of the EDA and stressed the unprecedented nature of the collaboration.
3. Under this Agreement, which will have a duration of six years, the four Parties will develop an engineering design of a magnetic fusion experimental reactor that will have as its programmatic objective the demonstration of the scientific and technological feasibility of fusion energy for peaceful purposes. The information developed during the ITER EDA will provide the basis for future decisions on the construction of ITER.
4. Each of the members of the supervisory ITER Council was introduced and the Council began its work. The Council members are Prof. Paolo Fasella and Dr. Charles Maisonnier from the EC, Mr. Kazuki Okimura and Dr. Masaji Yoshikawa from Japan, Acad. Evgenie Velikhov and Dr. Nikolai Cheverev from the RF, and Dr. James Decker and Dr. N. Anne Davics from the US. Academician Velikhov was elected Council Chair. Dr. Yoshikawa of Japan was elected Council Co-Chair. The formal seat for Council meetings is Moscow.
5. The Council's first action was to appoint a Director, Dr. Paul-Henri Rebut, currently the Director of the Joint European

Torus project in the EC. As ITER EDA Director, Dr. Rebut will be assisted in his work by a Joint Central Team to be located in three co-centers of equivalent importance at Garching near Munich, at Naka in Ibaraki Prefecture, and at San Diego, California. The Joint Central Team will perform design activities in cooperation with the Parties' Home Teams. The Home Teams will carry out the research and development, which comprises the bulk of the EDA work, to validate the design. The Home Teams will be headed by Home Team Leaders located in Garching (EC), Naka (JA), St. Petersburg (RF) and Livermore (US).

6. Dr. Rebut is assisted by four Deputy Directors. Dr. M. Huguet is the Deputy Director from the EC and he is also the Head of the Joint Central Team's activity at the Naka Co-center. Dr. Yasuo Shimomura is the Deputy Director from JA and serves as deputy to the Director. Dr. Valerij Chuyanov is the Deputy Director from the RF and he is also the Head of the Joint Central Team's activity at the San Diego Co-center. Dr. Ronald Parker is the Deputy Director from US and serves as Head of the Joint Central Team's activity at the Garching Co-center.

7. The Director is also assisted by the four Home Teams. Professor Romano Toschi is the Home Team Leader from the EC. Dr. Shinzaburo Matsuda is the Home Team Leader from JA. Dr. Gleg Filatov is the Home Team Leader from the RF. Dr. Alexander Glass is the Home Team Leader from the US. The Home Teams will participate in the development of the Work Program with the Director and, following approval of the Work Program by the Council, will sign Task Agreements with the Director to carry out specific work packages.

8. There are two subcommittees of the ITER Council: the Management Advisory Committee (MAC) and the Technical Advisory Committee (TAC). The Council appointed Dr. Yoshikawa to serve as the Chair of the MAC and Dr. P. Rutherford as the Chair of the TAC.

9. According to the Agreement and Protocol 1, two Special Working Groups have been established. SWG 1 is charged by Protocol 1 with the responsibility to review the detailed technical objectives along with technical approaches to determine the best practicable way to achieve the programmatic objectives of ITER. Academician Dimitri Ryutov, RF, was appointed Chair of SWG 1, which must present its findings to the Council. The Council will use these findings in determining the new design basis for use by the Director. SWG 2 is charged by Protocol 1 with development of guidelines for implementation of the task assignments between the Director and the Home Teams and with the drafting of Protocol 2. Dr. Michael Roberts, US, was appointed Chair of SWG 2, which will also present its findings to the Council.

10. Fusion is the process that provides the sun and the other stars with their energy. Fusion energy has long term potential as a virtually limitless, environmentally acceptable, and economically competitive source of electricity.

**DOCUMENTS
OF THE SECOND ITER COUNCIL (IC-2) MEETING
15-16 DECEMBER 1992, MOSCOW**

RECORD OF DECISIONS
TAKEN BY THE ITER COUNCIL AT ITS SECOND MEETING
15-16 December 1992, Moscow

Agenda No.

0. The Council accepted participation as attached (ROD Attachment 1)
3. The Council adopted the IC-2 Agenda (ROD Attachment 2)
4. The Council approved the IC-1 Minutes (ROD Attachment 3, not included)
- 5.1. The Council approved the SWG-1 Rules of Procedure (ROD Attachment 4)
- 5.2. The Council accepted the Report of SWG-1 and adopted the recommendations (ROD Attachment 5)
- 5.3. The Council agreed that SWG-1 had accomplished the task entrusted to it.
- 6.1. The Council adopted the Rules of Procedure of SWG-2 (ROD Attachment 6)
- 6.2. The Council accepted the Report of SWG-2 and adopted the recommended guidelines with one change and related modifications (ROD Attachment 7)
- 6.3. The Council asked MAC to meet as frequently as necessary to ensure that the Director's proposals are acted upon quickly between Council meetings. The Council agreed that electronic and other communication would be used to ensure rapid approval by the Council of MAC's unanimous recommendations; other cases would require Council approval according to the normal Council Rules of Procedure.
- 6.4. The Council asked the MAC Chair to change the proposed MAC Rules of Procedure to allow meetings to take place with at least one member from each Party present.
- 6.5. The Council agreed that, in a year or so, it would review the guidelines and could modify them as required.
- 7.1. The Council accepted the TAC Report and endorsed the recommendations on the Director's proposals for urgent tasks (ROD Attachment 8)
- 7.2. The Council accepted the MAC Report and endorsed the recommendations on the Director's proposals (ROD Attachment 9)
- 8.1. The Council approved the TAC Rules of Procedure (ROD Attachment 10)
- 9.1. The Council approved the MAC Rules of Procedure (ROD Attachment 11)
- 9.2. The Council endorsed the further recommendations in the MAC Report (ROD Attachment 12)
- 9.3. The Council invited the Chair to write to the Director General of IAEA indicating the Council's wish to establish a Joint Fund along the lines discussed by QEP Working Group and IAEA representatives.

Agenda No.

- 9.4 The Council invited the Director to propose operational arrangements for the Joint Fund, to be submitted to MAC for review.
10. The Council referred to MAC for review the Director's proposals in the following areas:
 - i) possible "visiting Home Team personnel scheme"
 - ii) support for the Joint Central Team
11. The Council accepted the proposals of the Contact Persons (ROD Attachment 13)
12. The Council asked the people referred to in IC-1 Record of Decisions to continue their work on Facilitations and Privileges.
13. The Council agreed to add the involvement of the Atomic and Molecular Data Unit to the list of possible areas of assistance from IAEA.
- 14.1 The Council directed SWG-2 to prepare a draft of Protocol 2 at minimum length.
- 14.2 The Council agreed that the Director should provide input to the drafting process and be given the opportunity to comment on the drafts.
- 14.3 The Council asked for the Parties' designation of membership of SWG-2 for Protocol 2 Drafting (ROD Attachment 14).
- 14.4 The Council asked SWG-2 to consider questions of longer term disposition of facilities and assets.
- 14.5 The Council agreed that the Director should interact with persons designated by the Parties regarding specific Physics R&D for ITER, as appropriate for the benefit of the project.
15. The Council adopted the list of further tasks for TAC (ROD Attachment 15).
16. The Council adopted the list of further tasks for MAC (ROD Attachment 16).
- 18.1 The Council established the tentative agenda for its third meeting, recommending the proper numeration and timely circulation of all documents (ROD Attachment 17)
- 18.2 The Council recommended that the Secretary should take all necessary measures to ensure timely preparation for each Council meeting including preparatory meetings with the Contact Persons and the Point of Contact with the Director, as necessary.
19. The Council accepted the invitation of the Japanese Party to hold its third meeting (21-22 April 1993) in Tokyo.
20. The Council decided that until the conclusion of the consultation referred to in Article 14 of the Agreement, each Host Party is committed to provide the support

Agenda No.

indicated in the "Compilation of Inputs For the Definitions of Host Support"
attached to the IC-I minutes.

21. The Council approved the Record of IC-2 Decisions.

SECOND ITER COUNCIL MEETING
15-16 DECEMBER 1992, MOSCOW, RF

LIST OF ATTENDEES

EC

Prof. P.Fasella	IC member
Dr. C.Maisonnier	IC member
Dr. E.Canobbio	expert, CP EC
Prof. K.Pinkau	permanent expert
Prof. R.Toschi	expert, HTL EC

JA

Mr. K.Okimura	IC member
Dr. M.Yoshikawa	IC Co-Chairman, MAC Chairman
Dr. S.Mori	expert
Mr. S.Aoyama	expert
Mr. T.Ide	expert
Dr. H.Kishimoto	expert
Dr. A.Kitsunezaki	expert, CP JA
Mr. S.Kuroki	expert, First Secretary of Japan Embassy in Moscow
Dr. S.Matsuda	expert, HTL JA

RF

Acad. E.P.Velikhov	IC Chairman
Dr. N.S.Cheverev	IC member
Dr. Yu.G.Balasanov	expert
Dr. O.Filatov	expert, HTL RF
Dr. L.G.Golubchikov	expert, CP RF
Acad. B.B.Kadomtsev	expert
Acad. D.D.Ryutov	expert, SWG-1 Chairman

US

Dr. J.F.Decker	IC member
Dr. N.A.Davies	IC member
Mr. T.R.James	expert

US (cont.)

Mr. A.L. Opdenaker
Dr. M. Roberts

Ms. C. Torquato

expert
expert, SWG-2 Chairman,
CPFP Chairman, CP US
expert

ITER

Dr. P.-H. Rebut
Dr. R. Parker
Dr. P. Rutherford
Dr. T. Hirayama
Mr. M. Drew
Dr. V.S. Vlasenkov

Director
Deputy Director
TAC Chairman
MAC Secretary
PC w/D
IC Secretary

IAEA

Dr. S. Machi
Dr. D. Banner

DDG RI
Liaison Officer

AGENDA FOR IC-2 MEETING
MOSCOW, 15-16 DECEMBER 1992

1. Opening
2. Remarks by Parties' Delegations, if any
3. Adoption of the Agenda
4. Approval of IC-1 Minutes
5. SWG-1 Report on the Detailed Technical Objectives (Attachment I)
6. SWG-2 Report on the Guidelines for Implementation of Design and Technology R&D Task Assignment (Attachment II)
7. Director's Proposals to the Council which have been reviewed by TAC and MAC (Attachment III)
 - Introduction
 - TAC
 - MAC
8. Further report by TAC (Attachment IV)
9. Further report by MAC (Attachment V)
10. Director's Status Report and New Proposals (Attachment VI)
11. Report by CPs on the Assigned Tasks
12. Report by Working Group on Facilitations and Privileges
13. IAEA matters (Attachment VII)
14. SWG-2 Further Tasks if any, Membership, and Protocol 2 Draft Guidance
15. TAC Further Tasks
16. MAC Further Tasks
17. Further Tasks for Ad Hoc Groups
18. Tentative Agenda for IC-3 Meeting (Attachment VIII)
19. Date and Location of IC-3 Meeting
20. Other Business - Host Support
21. Approval of Record of IC-2 Decisions
22. Adjournment

Rules of Procedure for SWG-1,
supplementary to the ITER EDA Agreement

ARTICLE 1 MEMBERSHIP

- 1.1 Alternate members are not admissible.

ARTICLE 2 MEETING ARRANGEMENTS

- 2.1 The SWG-1 shall meet whenever it is necessary in the judgement of the Chair, who shall lay out a meetings schedule at the first meeting.
- 2.2 The meetings shall be convened by the Chair. The Chair shall approve a draft agenda and shall send it to the members at least 10 days before the date of the meeting. SWG-1 may accept an agenda submitted within the prescribed period provided that none of the members present at the meeting objects.
- 2.3 Meetings of SWG-1 require each Party to be represented.
- 2.4 SWG-1 may invite the Director and a minimum number of experts to attend its meetings and to provide it with specific information. These persons shall receive invitations by the Chair after consulting with each of the delegations to SWG-1.
- 2.5 Upon proposal by the Chair, the SWG shall appoint its Secretary.

ARTICLE 3 MEETING PROCEDURES

- 3.1 Meetings are not open to the public.
- 3.2 Each delegation shall speak with one voice.
- 3.3 Findings from SWG-1 shall be arrived at through development of unanimity between the four delegations.
- 3.4 Participation in the discussions by non-members is at the discretion of the Chair in consultation with the four delegations.

ARTICLE 4 MINUTES AND REPORTS

- 4.1 Minutes and reports shall be drafted and approved at each meeting.

October 1992

ITER Special Working Group 1 Review Report

Preamble

- ♦ In accordance with Article 10 of the ITER EDA Agreement,
- ♦ with reference to Sections 1 and 2 of Protocol 1,
- ♦ in the light of the Guidelines for SWG-1 imposed by the 1st ITER Council Meeting (Attachment 1),
- ♦ on the basis of the ITER Conceptual Design Activities Final Report, ITER Documentation Series No. 16, and the documents referred to therein,

the Special Working Group has agreed as follows.

1 General Constraints

The ITER detailed technical objectives and technical approaches, including appropriate margins, should be compatible with the aim of maintaining the cost of the device within the limits comparable to those indicated in the final report of the ITER CDA as well as keeping its impact in the long-range fusion programme.

ITER should be designed to operate safely and to demonstrate the safety and environmental potential of fusion power.

2 Performance and Testing

- Plasma Performance

ITER should have a confinement capability to reach controlled ignition. The estimates of confinement capability of ITER should be based, as in the CDA procedure, on established favourable modes of operation.

ITER should

- ♦ demonstrate controlled ignition and extended burn for a duration sufficient to achieve stationary conditions on all time scales characteristic of plasma processes and plasma wall interactions, and sufficient for achieving stationary conditions for nuclear testing of blanket components. This can be fulfilled by pulses with flat top duration in the range of 1000s. For testing particular blanket designs, pulses of approximately 2000s are desirable.
- ♦ aim at demonstrating steady state operation using non-inductive current drive in reactor-relevant plasmas.

- **Engineering Performance and Testing**

ITER should

- ◆ demonstrate the availability of technologies essential for a fusion reactor (such as superconducting magnets and remote maintenance);
- ◆ test components for a reactor (such as systems to exhaust power and particles from the plasma);
- ◆ test design concepts of tritium breeding blankets relevant to a reactor. The tests foreseen on modules include the demonstration of a breeding capability that would lead to tritium self-sufficiency in a reactor, the extraction of high-grade heat, and electricity generations.

3 Design Requirements

The choice of parameters of the basic device should be consistent with margins that give confidence in achieving the required plasma and engineering performance. The design should be sufficiently flexible to provide access for the introduction of advanced features and new capabilities, and to allow for optimizing plasma performance during operation. The design should be confirmed by the scientific and technological database available at the end of the EDA.

An inductive pulse flat-top capability, under ignited conditions, of approximately 1000s should be provided. In view of the ultimate goal of steady-state operation, ITER should be designed to be compatible with non-inductive current drive, and the heating system required for ignition in the first phase of operation should have current drive capability.

To carry out nuclear and high-heat flux component testing at conditions relevant to a fusion power reactor:

- ◆ the average neutron wall loading should be about 1 MW/m^2 ;
- ◆ the machine should be designed to be capable of at least 1 MWa/m^2 to carry out longer-time integral and materials tests.

It is desirable to operate at higher flux and fluence levels. Within the engineering margins the ITER designers should examine the implications and possibilities of exploiting a wider range of operational regimes. The design of the permanent components of the machine should not preclude achieving fluence levels up to 3 MWa/m^2 . For the second phase of operation, the design should include the capability of replacing the shield with a breeding blanket.

4 Operation Requirements

The ITER operation should be divided into two phases:

- ◆ The first phase, the Basic Performance Phase, is expected to last a decade including a few thousand hours of full DT operation. This phase should address the issues of controlled ignition, extended burn, steady-state operation, and the testing of blanket modules. It is assumed that for this phase there will be an adequate supply of tritium from external sources.

- Controlled ignition experiments in ITER will address confinement, stability and impurity control in alpha particle heated plasmas. Extended burn experiments will address, in addition, the control of fusion power production and plasma profiles, and the exhaust of helium ash.
- The aim of current drive experiments in this phase should be the demonstration of steady-state operation in plasmas having alpha particle heating power at least comparable to the externally applied power. Using the heating systems in their current drive mode, non-inductive current drive should be implemented for profile and burn control, for achieving modes of improved confinement, and for assessing the conditions and power requirements for the above type of steady-state operation. Depending on the outcome of these experiments, additional current drive power may have to be installed.
- Functional tests of blanket modules in this phase should consist of a few thousand hours of integral burn time, in parallel with the physics programme, including continuous test campaigns of 3-6 days at a neutron wall loading of about 1 MW/m².
- ♦ The second phase, Enhanced Performance Phase, is also expected to last a decade, with emphasis placed on improving overall performance and carrying out a higher fluence component and materials testing programme. This phase should address high availability operation and advanced modes of plasma operation, and may address reactor-relevant blanket segment demonstration. Operation during this phase should include continuous testing campaigns lasting 1-2 weeks, and should accumulate a fluence of at least 1 MWa/m².

A decision on incorporating breeding for this phase should be decided on the basis of the availability of tritium from external sources, the results of breeder blanket testing, and experience with plasma and machine performance.

The implementation of the Enhanced Performance phase should be made following a review of the results from the Basic Performance Phase and an assessment of the relative value of the proposed elements of the programme.

5 Final Recommendation

The availability to achieve the above objectives and to comply with the "Guideline for SWG-1" provided by the ITER Council at its first meeting should be confirmed by the Director in the outline of the design referred to in that Guideline.

GUIDELINE FOR SWG-1

The IC recommends as a general guideline for SWG-1 that detailed technical objectives and technical approaches including appropriate safety margins, should be compatible with the aim of maintaining the cost of the device within the limits comparable to those indicated in the final report of the ITER CDA as well as keeping its impact in the long-range fusion program.

The IC asks the Director to present an outline of the design within about 10 months, at the time when a draft agreement of Protocol 2 should have been prepared by SWG-2.

November 18, 1992

**RULES OF PROCEDURE FOR THE ITER Special Working Group 2 (SWG 2)
DURING THE ENGINEERING DESIGN ACTIVITIES**

The Charter for the SWG 2 is contained in Article 10 of the Agreement and in Sections 1, 3, 4 and 5 of the Protocol 1 repeated below.

**(FROM THE AGREEMENT)
ARTICLE 10
SPECIAL WORKING GROUPS**

- (1) Special Working Groups (SWGs) may be established by means of the Protocols or by decision of the Council and may be entrusted with specific tasks which are outside the responsibilities of the Director as described in this Agreement, its Annexes and Protocols.
- (2) When a SWG is established, each Party shall, after consultation with the Council, designate its representatives to the SWG. The SWG shall report to the Council. The Council shall appoint the Chair of the SWG. Subject to the approval of the Council, the SWG shall draw up its rules of procedure. The Council shall decide upon any involvement of the Director in the SWG. With the accomplishment of the task(s) entrusted to it, that SWG shall cease to exist.

(PARTIAL EXTRACTS FROM PROTOCOL 1)

Section 1 - Special Working Groups

In accordance with Article 10 of the Agreement, two Special Working Groups (SWG) shall be established.

SWG 2 shall submit, not later than three months after entry into force of the Agreement, guidelines for implementation of task assignments, as defined in Section 3(1), to the Council for its approval, and prepare in accordance with Section 4 a draft of Protocol 2.

Section 3 - Task Assignment

(1) In proceeding toward the assignment of tasks to each of the Home Teams in developing the Work Program,

c) on the basis of this material and of the guiding principles set out in Annex B, 1(C) to the Agreement and of the guidelines established by SWG 2, the Director shall propose in the draft Work Program to be submitted by the Director to the Council pursuant to Article 11 of the Agreement, the assignment of the tasks to each of the Home Teams.

Section 4 - Protocol 2

(1) SWG 2, assisted by the Director and the Joint Central Team, shall draft Protocol 2 and submit a draft to the Council not later than ten months after entry into force of the Agreement.

(2) In drafting Protocol 2, the SWG 2 shall consider, among others, the following items:

- new tasks to be initiated,
- duration of Protocol 2,
- consequences of inadequate performance of tasks assigned to a Home Team,
- possible need for SWGs and their tasks,
- detailed functions and responsibilities of the Council, the Director, and the MAC, with respect to the implementation of Protocol 2, and
- any necessary changes to items described in Protocol 1.

Section 5 - Design and R&D Tasks

(6) The Joint Central Team and the Home Teams shall, during the term of this Protocol, perform design work as requested by the Director in accordance with the guidelines established by the Council. In addition, the Joint Central Team shall assist the SWGs and the Director in the implementation of the tasks defined in Sections 2, 3, 4 and paragraphs (2) and (4).

The following rules of procedure, approved by the Council, are supplementary to the above.

ARTICLE 1 MEMBERSHIP

1.1 Membership may change according to the tasks being undertaken by SWG 2.

ARTICLE 2 MEETING ARRANGEMENTS

- 2.1 The SWG 2 shall meet whenever it is necessary in the judgement of the Chair.
- 2.2 The meetings shall be convened by the Chair. The Chair shall approve a draft agenda which shall be sent to the members at least 10 days before the date of the meeting. SWG 2 may accept an agenda submitted within the prescribed period provided that none of the members present at the meeting objects.
- 2.3 Meetings of the SWG 1 require that each Party be represented.
- 2.4 SWG 2 may invite a minimum number of experts to attend to provide it with specific information. These persons shall receive invitations by the Chair after consulting with each of the delegations to SWG 2.

ARTICLE 3 MEETING PROCEDURES

- 3.1 The meetings are not open to the public.
- 3.2 Participation in the discussions by non-members is at discretion of the Chair in consultation with the four delegations.
- 3.3 Results from SWG 2 shall be arrived at through development of a consensus of the four delegations, each delegation speaking with one voice.

ARTICLE 4 REPORT

- 4.1 Formal reports shall be agreed upon by SWG-2 at its meetings.

Guidelines for the Implementation of Design and Technology R&D Tasks

A. Approval and Revision of Task Agreements*

- (1) Each Task Agreement exceeding 300 IUA in value shall be concluded only after the task with its technical description and assignment to a Party has been approved by the ITER Council.
- (2) Task Agreements equal to or below 300 IUA in value may be concluded directly between the Director and the Home Team Leader concerned. The Director shall promptly inform the other three Home Team Leaders of such Task Agreements.
- (3) The total value of Task Agreements equal to or below 300 IUA assigned by the mechanism established in paragraph (2) above should not exceed 3,000 IUA in any period between meetings of MAC, which is providing recommendations on the Director's proposals for Council approval.
- (4) Revisions to Task Agreements to incorporate minor technical changes within the scope of work already approved by the Council may be implemented upon agreement of the Director and the affected Home Team Leader. Task scope changes up to a limit of +/- 300 IUA or 20%, whichever is smaller, per task may also be implemented upon agreement of the Director and the Home Team Leader. Tasks concerning work whose results are not longer required may be terminated by mutual consent of the Director and the Home Team Leader affected; the ITER credit for such tasks must be revised appropriately. All revisions other than 1) minor technical changes, 2) scope changes less than or equal to 300 IUA, and 3) termination as defined above must be approved by the Council through procedures defined in the Agreement for new task assignments; in these cases, the Director shall adjust the ITER credit as appropriate.
- (5) All revisions or Task Agreements not requiring Council approval must be reported to the Council.

B. Task Identification, Definition and Valuation

In identifying and defining tasks in accordance with Protocol 1, the following guidelines shall apply:

- (1) While acting in close interaction with the Home Team Leaders to identify tasks, the Director shall also establish the ITER credits that the Parties undertaking the tasks would receive. This interaction should, as far as possible, lead to a common understanding on feasible, effective approaches to identification and definition and the valuation of the tasks.

Before the list of these tasks is sent to the Home Team Leaders in accordance with Protocol 1, the Director should

* as modified by IC-2

inform the Home Team Leaders of the list of tasks together with the credits the Party undertaking each of the tasks would obtain; any Party with an interest in performing a task should rapidly inform the Director so that if more than one Party expresses such an interest, the Director shall, in close interaction with Home Team Leaders, identify how these interests could best be taken into account, either through splitting into smaller tasks, parallel efforts or joint efforts.

In concluding particular Task Agreements, consideration will be given by the Director to including in the ITER credit the relevant work that pertains to those tasks and was initiated by the Party after the signature of the ITER EDA Agreement and Protocol 1.

- (2) Within each task system area, there should be a reasonable balance of tasks shared among the Parties. In assessing this balance, the qualitative characteristics of the tasks to be assigned, e.g., the nature of test facilities and the level of technology should be taken into account.
- (3) Where no Party expresses an interest in performing a particular task, the Director shall, through close interaction with the Home Team Leaders, attempt to interest at least one of the Parties. If the Director fails to interest one of the Parties, he may appeal to the ITER Council, in accordance with Article 12(1).
- (4) For some individual tasks, parallel efforts by more than one Party may be justified because of high perceived technical risk or uncertainty, which would involve staged assignments.
- (5) The ITER Director shall, in close interaction with the Home Team Leaders, ensure that the disaggregation of work into tasks covered by Task Agreements does not exceed what is necessary to ensure an efficient execution of the work, bearing in mind the need to ensure a reasonable sharing of the work between the Parties. Each Task Agreement shall describe a reasonable, coherent, self-contained scope of work with well defined interfaces.
- (6) The distribution of design work between the JCT and the Home Teams should, in general, respect the principle that the JCT should perform only that work which can be more appropriately performed by a central team. The total ITER credit for design tasks assigned to the Home Teams is understood to be the equivalent of about 500 Professional Person Years.

C. Selection Criteria

- (1) Expressions of interest to perform a task should be considered for selection only if they document the capability to meet the specifications and schedules as well as the availability of necessary facilities and know-how.

Before rejecting any expression of interest on the grounds that the technical requirements are not satisfied, the ITER Director shall inform the relevant Home Team Leader, who for a short period will be given the opportunity to revise the Party's proposal.

- (2) The selection from among those expressions of interest that meet these technical requirements shall be based primarily on:
- (a) technical experience and capability of the proposed implementing institution,
 - (b) technical risk of the proposed approach, and
 - (c) demonstrated understanding of the technical and managerial requirements.

Other factors, such as the need to maintain a reasonable balance of tasks in a task system area, the priorities assigned by the Parties to the work, or the quality of the proposed approach, should be taken into account as appropriate.

Terminology

The following definitions are used in the development of the guidelines for the implementation of task assignments.

Task - that work which is performed by the Joint Central Team (JCT) or a Home Team. A task which is assigned to a Home Team is the subject of a Task Agreement, of which there may be hundreds. A task assigned to one Home Team may involve other Home Teams.

Task System Area - a group of tasks that comprise a natural ITER system, of which there may be ten(s).

Task Assignment - the process by which tasks are assigned to each of the Home Teams and the JCT.

Task Agreement - the agreement document that contains the technical description of the task, the results of the task assignment process, and the terms and conditions of its execution.

Staged Assignment - an approach to assigning those tasks whose technical complexity or risk warrants a step-by-step assignment process in which conceptualizing, designing, developing, and testing (or other steps) may be successively assigned either to the same Party or multiple Parties or to a narrowing set of Parties in which case the initial tasks involve multiple Parties but subsequent tasks are refined to involve fewer Parties.

Design Tasks - those tasks needed to carry out the design (both engineering and physics design) activities to be assigned to both the JCT and the Home Teams, and whose cost estimate was included within the estimated 250 million January 1989 US\$ for design work in the Final Report of the ITER Conceptual Design Activities (CDA).

Technology R&D Tasks - those tasks supporting the design which include the Basic Technology R&D and the Specific Engineering R&D as defined in the above-mentioned Final Report and whose total cost was estimated to be about 750 million January 1989 US\$ (400 and 350 million respectively) in that Report.

Work Program - introduced in Article 11, the Work Program is understood to be an evolving document receiving regular refinement throughout the EDA.

ITER Credits - the value in ITER Units of Account (IUA) [equivalent to 1000 US\$ at January 1989 values] attributed to a particular design or technology R&D task by the ITER Director at the time the task is sent to the Home Team Leaders with a request for expressions of interest. The only corrections to this value will be those related to changes in the scope of the task. The sum of all such credits should be comparable with the estimate in the Final Report of the CDA.

TAC RECOMMENDATIONS ON THE DIRECTOR'S PROPOSALS

PROPOSED URGENT TASK ON ITER MODEL COIL TEST FACILITIES

Recommendation 1:

The use, in parallel, of the two proposed facilities is the preferred approach to validate, through the testing of model coils, the conductor manufacturing, performance and quality procedures and to demonstrate the magnet designs for ITER, both because of the tight schedule within the EDA and the desirability of having parallel testing of the two coils. From a technical viewpoint, the TAC recommends adopting this approach.

Recommendation 2:

The TAC does not support the approach of having only one testing facility.

Recommendation 3:

While these recommendations support the JCT proposal, the JCT proposal suggests a limit in total ITER credit for facility upgrades of \$20M. The combined upgrade funding requested by the parties for the two facilities total \$38M. The TAC is not able to resolve the issue of what fraction of the cost of a facility should be covered by ITER credit. The TAC notes that there is some arbitrariness in the \$20M, but, on the other hand, the upgrades may be viewed as valuable assets for each laboratory and of value to other programs. The TAC hopes that the funding discrepancy issue can be resolved rapidly between the JCT and the proposing parties; otherwise resolution of this issue must come elsewhere through the ITER process.

PROPOSED URGENT TASK FOR THE PROCUREMENT OF LONG-LEAD-TIME MATERIALS FOR THE MANUFACTURE OF THE ITER MODEL COILS

Recommendation: The TAC recommends that the Director be authorized to proceed as rapidly as possible to initiate strand production. It was noted that the Director proposes to allocate ITER credits of up to \$3M for each party to

cover prepayments for the procurement of long-lead-time materials for strand production, subject to a total authorization not exceeding \$6M.

PROPOSED URGENT TASK ON THE STUDY OF THE MANUFACTURE OF ITER MAGNETS

Recommendation: The TAC concurs with the Director's recommendation that manufacturing feasibility studies be placed with each of the four ITER parties within a ceiling amount of \$350K per party.

It is essential to involve industrial companies at an early stage in the design of the magnets in order to have some feedback from the companies experience and know-how in manufacturing technologies.

MAC RECOMMENDATIONS ON THE DIRECTOR'S PROPOSALS

1. General Principle of Test Facilities Funding

MAC notes that the Director has proposed that typically 50% credit be allocated to the cost of construction of new or upgraded test facilities. MAC does not support this proposal. Rather, taking into account the Director's statement of limited R&D funds for the ITER-EDA, the MAC stresses the need for general guidelines for granting R&D credits to test facilities, recommending the following lines:

-- That ITER Credit should only be provided for the test facilities with the minimum technical requirements to accomplish the required EDA testing.

--That the Director, in close interaction with the Home Team Leaders, define the need and minimum technical requirements for any particular test facility to meet the needs of ITER.

--That consideration be given by the Director to assign ITER credit consistent with the minimum resources needed to build or upgrade facilities to meet these needs and taking into account the degree of utilization of the facilities for the execution of ITER related tasks.

It is understood that Parties, based on domestic program needs, may decide to build test facilities which provide technical capabilities beyond that needed for the ITER EDA.

2. Proposed Task Agreement for Model Coil Test Facilities

MAC . recommends that:

--The IC approve the construction / upgrading of two model coil test facilities as urgent tasks.

--The Director should, without delay, draw up a technical description of the corresponding tasks and, in close interaction with the Home Team Leaders,

should determine on the minimum technical specifications for testing of the TF and CS model coils: (REFERENCE: Section 5 (2) of Protocol #1)

--ITER Credit be approved for the two model coil test facilities and that the value of the credit to be negotiated between the Director and the Parties be consistent with the scope and the specifications of the tasks, and with the minimum construction / upgrading costs that are required to meet ITER EDA needs.

Finally, the MAC recommends that:

--The ITER Council ask the Director to develop two task agreements with Japan and EC for the construction/upgrading of the test facilities. These agreements will be reviewed by MAC at the March 1993 meeting.

3. Feasibility Studies of the Manufacture of ITER Magnets

The MAC concurs with the Director's proposal to assign tasks to the four Parties for the feasibility studies of the manufacture of ITER magnets. The MAC recommends that the IC approve the Director's proposal with a credit to each Party not to exceed \$350K. It is anticipated that most of the \$350K credit will be for industry participation in the tasks.

4. Procurement of Long Lead Materials

The MAC recommends that the IC asks the Director to propose task agreements with the Parties for the procurement of strand for the manufacture of model coils. This will require that the Director prepare the strand specifications and a definition of staged strand procurement for the model coils by early January 1993. The Parties will then initiate procurement actions to obtain vendor quotations for discussion with the JCT, as basis for decisions on the task agreements. The task agreement with the Parties will be implemented in stages. The whole process is anticipated to include the following:

Definitions of the strand performance, cost, schedule including specifications of the raw materials.

Procurement of a first quantity of strand for preliminary test and qualifications.

Procurement of strand for model coil

The Director's proposals for task assignments will be reviewed by MAC at the March 1993 meeting.

Joint Central Team Staff

The MAC discussed the build-up of the staff of the Joint Central Team (JCT) with the Director. The MAC recognizes the increasing work load of the JCT. For example, during its first meeting, the MAC instructed the Director and JCT to prepare a technical description of the magnet testing task and of superconducting strand specifications. The MAC wishes to express its strong desire that the Parties continue their best efforts to provide staff members to build up the JCT as rapidly as possible, as recommended by the Council at its first meeting. The MAC views this as critical to the success of the EDA.

Associated Staff

The Director has proposed the establishment of a category of "Associated Staff" under which people from the Parties' fusion programs or related industries, would work closely with the JCT at the Co-Centers for periods up to two years. This proposal received favorable consideration from a majority of the MAC on the assumptions that the Associated Staff would be members of the Home Team. However, the MAC recognized that several issues need to be resolved before such an initiative can be implemented. In particular, neither the ITER Agreement and Protocol 1, nor the record of decision of IC-1 contemplate or foresee the formation of such a category of personnel. The MAC therefore recommends that the Council consider charging MAC to explore the issues which need to be resolved relating to this initiative.

CAD Management

MAC discussed the paper proposed by the Director on ITER Management Systems and Supporting Software. In general MAC

supports the need for an ITER Process Management System (IPMS) and agrees that there is an urgency to proceed with the initial step of a design phase. The Director proposes a contract with IBM/Dassault of \$500K for a 4 month, requirements definition and system design. MAC agrees with this proposal. MAC recommends that the three Parties responsible for the Co-centers be asked to provide equal shares of the \$500K. Specific contract and payment details will need to be worked out.

MAC notes that the implementation stage to follow this design phase should make maximum use of ITER Team resources and should minimize the effort to be provided by outside contractors. The resources to implement the IPMS should come from those already agreed. MAC also requests that a formal design review be organized by the Director, with Home Team involvement, at the end of the design phase.

MAC also recommends that the Director ask the Parties for experienced candidates who could serve as members of the team developing the system.

RULES OF PROCEDURE FOR THE ITER TECHNICAL ADVISORY COMMITTEE DURING THE ENGINEERING DESIGN ACTIVITIES

The Charter for the Technical Advisory Committee is contained in Article 6 of the Agreement repeated below.

ARTICLE 6 TECHNICAL ADVISORY COMMITTEE

- (1) The Council shall designate the members of the Technical Advisory Committee (TAC) and its Chair, based on the recommendation of the Parties.
- (2) The TAC shall be composed of up to 16 members (including its Chair) acting in an individual capacity, no more than one fourth of whom shall come from each Party. They shall be chosen by the Council so as to ensure that all areas of expertise required for performance of the activities set out in Article 2(a) to (d) are represented on the TAC.
- (3) The TAC shall, upon request of the Council, advise it on technical matters and perform such other tasks as the Council may request it to undertake.
- (4) Subject to the approval of the Council, the TAC shall draw up its rules of procedure.

The following rules of Procedure, approved by the Council, are supplementary to Article 6.

ARTICLE 1 MEMBERSHIP

- 1.1 Alternative members are not admissible.

ARTICLE 2 ORGANIZATION

- 2.1 If the Chair is unable to be present at a given meeting, the meeting shall be rescheduled unless there is an accepted urgency, in which case the meeting shall be chaired by a TAC member elected by the TAC for that meeting.
- 2.2 Upon proposal by the Chair, the TAC shall appoint its Secretary.

ARTICLE 3 MEETING ARRANGEMENTS

- 3.1 The TAC shall meet whenever it is necessary, in the judgement of the Chair, in order to complete a charge given by the Council.

3.2 The meetings shall normally take place at the Joint Central Team Co-Centers, in turn, or at locations deemed appropriate by the Chair in consultation with the other members.

3.3 The meetings shall be convened by the Chair acting through the Secretary. The Chair shall approve a draft agenda, which the Secretary shall send to the members at least 20 days before the date of the meeting. The Chair may request relevant working papers from the Joint Central Team. The Secretary shall either include these working papers in the transmittal of the draft agenda, or shall ensure that they are transmitted at the same time as the draft agenda. The TAC may accept an agenda and working papers not submitted within the prescribed period, provided that none of the members present at the meeting objects.

3.4 Meetings of the TAC require that at least two members from each Party be present. In unusual circumstances in which only one member from a Party is able to be present, that member may request that the meeting proceed if none of the other members present objects.

3.5 The Director and the Deputy Directors should normally attend TAC meetings, except for those sessions declared by the Chair to be restricted to TAC members only. Experts shall attend by written invitation. Invitations shall be tendered by the Secretary upon the request of the Chair after having consulted with the other members and with the Home Team Leaders of the Parties.

ARTICLE 4 MEETING PROCEDURES

4.1 At each meeting, the agenda will be reviewed and amended as necessary.

4.2 Participation in the discussions by non-members is at the discretion of the TAC. The meeting is not open to the public.

4.3 Advice of the TAC shall reflect the technical opinions of all members. In cases where consensus is not possible, recommendations to the Council will be arrived at by a majority vote of the members present. Attending experts may not vote on any recommendations considered by the TAC.

4.4 Reports and advice from the TAC shall be drafted and approved, at least provisionally, during the meeting at which they are developed. In those cases in which a provisional approval is required, it will be necessary to submit the provisional report draft to those members who were in attendance at the meeting for their final, written approval not later than 10 working days after the end of the meeting.

ARTICLE 5 MINUTES AND REPORTS

5.1 The Secretary shall draft minutes of each meeting. The minutes shall include an Annex containing the reports and advice noted in Article 4.4. The minutes shall also include a list of all members and non-members in attendance. The minutes and related documents shall be properly numbered.

5.2 After review by the Chair, the Secretary shall, within 10 days after the meeting, submit the draft minutes to the members of TAC for their comment. The members of the TAC shall be deemed to have approved the minutes if they have transmitted no comments to the Secretary within 30 days after transmittal of the minutes. If the minutes are not approved in accordance with this procedure, then they shall be discussed and approved at the next TAC meeting.

5.3 The approved minutes shall be prepared by the Secretary and signed by the Chair. The Secretary shall send a copy of the approved minutes to the members of the TAC, to members of the Council, to the Director and Deputy Directors, and to each Home Team Leader, as well as to the appropriate IAEA official, within 10 days after their approval. The approved minutes shall be maintained on file by the TAC Secretary with copies at each of the Joint Central Team Co-Centers.

5.4 The approved TAC reports noted in Article 4.4 must be transmitted to the Council members, with copies to the Director and Deputy Directors and to each Home Team Leader, immediately after their approval. Each report shall contain a list of the members present in agreement with the report. Minority report(s), if written, must be attached to the majority report and list the members present in agreement with the minority report(s).

December 1992

RULES OF PROCEDURE FOR THE ITER MANAGEMENT ADVISORY COMMITTEE DURING THE ENGINEERING DESIGN ACTIVITIES

The Charter for the Management Advisory Committee is contained in Article 7 of the Agreement repeated below.

ARTICLE 7 MANAGEMENT ADVISORY COMMITTEE

- (1) Each Party shall designate three members of the Management Advisory Committee (MAC), one of whom shall be the Home Team Leader provided for in Article 9. The Council shall appoint the Chair of the MAC from among the members.
- (2) The MAC shall report to and advise the Council in management and administrative matters, including finance, personnel, and task assignment provided for in Article 11.
- (3) Subject to the approval of the Council, the MAC shall draw up its rules of procedure.

The following rules of Procedure, approved by the Council, are supplementary to Article 7.

ARTICLE 1 MEMBERSHIP

- 1.1 The MAC shall be composed of delegations of three persons from each Party.
- 1.2 If a member cannot attend a meeting of the MAC, another member may be designated by that member's Party for that meeting. The Chair as well as the MAC Secretary, provided in Article 2.2, should be notified before the meeting of the participation of any newly designated members.

ARTICLE 2 ORGANIZATION

- 2.1 If the Chair is unable to be present at a given meeting, the meeting shall be rescheduled unless there is an accepted urgency in which case the meeting shall be chaired by a MAC member elected by the MAC for that meeting.
- 2.2 Upon proposal by the Chair, the MAC shall appoint its Secretary.

ARTICLE 3 MEETING ARRANGEMENTS

- 3.1 The MAC shall meet whenever it is necessary, in the judgement of the Chair, in order to complete a charge given by the Council. Normally, the MAC shall meet in advance of each Council meeting. Extraordinary meetings may be convened by the Chair either at the request of any MAC member or the Director; in this latter case, the Director shall simultaneously inform the Chair of the Council of this request and its motivation.
- 3.2 The meetings shall normally take place at the Joint Central Team Co-Centers, in turn, or at locations deemed appropriate by the Chair in consultation with the other members.
- 3.3 The meetings shall be convened by the Chair acting through the Secretary. The Chair shall approve a draft agenda which the Secretary shall send to the members at least 20 days before the date of the meeting. The Parties will respond to the draft within 10 days with comments or consideration to the agenda. The Secretary shall also include relevant working papers in the transmittal of the draft agenda. The MAC may accept an agenda and working papers not submitted within the prescribed period provided that none of the members present at the meeting objects.
- 3.4 Meetings of the MAC require that at least one member from each Party be present.
- 3.5 The Director or a designee together with up to two members from JCT as experts shall attend MAC meetings. The MAC may invite IAEA representatives as experts. A minimum number of experts may attend. Experts, for MAC as a whole, shall attend by written invitation. These invitations shall be tendered by the Secretary upon request by the Chair after having consulted with the other MAC members. Each MAC delegation may also invite up to two experts at a MAC meeting based on meeting agenda topics. The MAC Chair will be informed in advance of meeting of the names of any experts a Party plans to invite.
- 3.6 The MAC may have closed sessions (delegates and Chair only).

ARTICLE 4 MEETING PROCEDURES

- 4.1 At each meeting, the agenda will be reviewed and amended as necessary.
- 4.2 Participation in the discussions by non-members is at the discretion of the MAC. The meeting is not open to the public.
- 4.3 Recommendations by the MAC shall be drafted and their text shall be arrived at through development of a consensus of the delegations present. The MAC shall strive to express a unanimous point of views in advising the Council. The opinion of a delegation which cannot join the majority shall, upon its request, be recorded.
- 4.4 Reports and advice from the MAC shall be drafted and their text shall be approved during each meeting.

ARTICLE 5 MINUTES AND REPORTS

- 5.1 The Secretary shall draft the minutes of each meeting. The minutes shall include an Annex containing the reports and advice noted in 4.4. The minutes and related documents shall be properly numbered.
- 5.2 After review by the Chair, the Secretary shall, within 10 days after the meeting, submit the draft minutes to the members of MAC for comments and send them to the Director. The delegations of the MAC shall be deemed to have approved the minutes if they have transmitted no comments to the Secretary within 20 days after transmittal of the minutes. If the minutes are not approved in accordance with this procedure, then they shall be discussed and approved at the next MAC meeting.
- 5.3 The approved minutes shall be prepared by the Secretary and signed by the Chair. The Secretary shall send a copy of the approved minutes to the members of MAC, to the members of the Council, to the Director and to the IAEA ITER Office within 10 days after their approval. The approved minutes shall be maintained on file by the MAC Secretary, at the integration co-center and at the ITER Council office in Moscow.
- 5.4 The approved MAC texts noted in 4.4 must be transmitted to the Council members immediately after the end of each meeting. Each text shall contain a list of the delegations and their members present. Minority report(s), if written, must be attached to the majority report and note the delegation(s) and delegation members present in agreement with the minority report(s).

MAC FURTHER RECOMMENDATIONS

Joint Fund

The MAC reviewed the IAEA Joint Fund draft that has been developed by the Working Group and discussed the possible Joint Fund arrangements and needs with the Director. The Director suggests exploring possible arrangements including operation of the fund through the Co-centers. MAC suggested that the Director develop and make a new proposal to MAC.

Condition on the involvement of other countries

The MAC agreed to establish a temporary working group which will understand and propose the conditions for other countries involvement in the ITER EDA. Issues such as intellectual property rights need further attention.

Experts for legal issues shall be identified for this WG from each Party, to include not more than three people. The MAC identified two MAC members, Dr. Canoucio and Dr. Golubchikov, who will coordinate the effort of this working group.

The MAC notes that the EC proposal to involve Canada through Euratom is appropriate in terms of Canada's fusion research capabilities. MAC recommends approval of the proposed Canada involvement by the Council subject to the findings of MAC as noted above. Also, consideration would be given to the implication of other countries joining the ITER EDA.

CONTACT PERSONS' PROPOSALS

EXPLORE INVOLVEMENT OF INSTITUTIONS FROM OTHER COUNTRIES

CPS' PROPOSAL --

1. HT MAY, IN EXCEPTIONAL CASES, ASSIGN WORK TO INSTITUTIONS WITH OUTSTANDING CAPABILITY
2. REQUEST SHALL BE MADE BY INVOLVED HTL TO DIRECTOR FOR APPROVAL
3. INVOLVEMENT AND CONDITIONS FOR INVOLVEMENT SHALL BE COMPATIBLE WITH ALL RELEVANT PORTIONS OF EDA AGREEMENT, ANNEXES AND PROTOCOLS

RECOMMEND DETAILED APPROACHES TO LOGO, FLAGS, ETC.

CPs' PROPOSAL --

1. LOGO - MODIFIED CDA LOGO HAS BEEN DEVELOPED
2. FLAG - INAPPROPRIATE FOR ITER EDA
3. STATIONERY - PROPOSED FORMAT COMMON TO ALL EDA ENTITIES

COMPLETE PROPOSED ARRANGEMENT FOR JOINT FUND

CPs' (QEP WG) PROPOSAL --

1. SUGGESTED INSURANCE APPROACH TO IAEA'S LIABILITY CONCERN; VERY MODEST PREMIUM
2. DG BLIX HAS ACCEPTED OVERALL APPROACH
3. WITH COUNCIL APPROVAL AND IAEA BOARD OF GOVERNORS' APPROVAL (FEB. '93), JOINT FUND WOULD BE AVAILABLE FOR USE, INCLUDING ENGAGEMENT OF PERSONNEL





ITER EDA
Council

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*International Thermonuclear Experimental Reactor Engineering Design Activities conducted by
the European Atomic Energy Community, Japan, the Russian Federation and the United States
under the auspices of the International Atomic Energy Agency*

4. COUNCIL SHOULD SEND REQUEST LETTER TO IAEA
5. QUESTIONS OF NEED/PRACTICALITY REMAIN

REVIEW SUGGESTED LIST OF CONTENTS FOR RED-COVER DOCUMENT

CPS' PROPOSAL --

1. PREPARED LIST BEGINNING WITH DG'S INVITATION TO NEGOTIATIONS, INCLUDING QEN 1-4, AND ENDING WITH SIGNING CEREMONY
2. SUGGESTED THAT IAEA PUBLISH AGREEMENT IN SMALL BOOKLET FORM
3. w/EDITOR, PREPARED NEWSLETTER ARRANGEMENT AND ARE REVIEWING DISTRIBUTION LIST

w/DIRECTOR, DISCUSS w/IAEA AND HOST PARTIES OPTIONS FOR PUBLISHING TECHNICAL DOCUMENTS

CPS' PROPOSAL --

1. HAVE REQUESTED THAT DIRECTOR INITIATE PUBLICATION APPROACH
2. IAEA LIMITED IN PUBLICATION RESOURCES
3. HAVE SUGGESTED FOUR DOCUMENTS DURING PROTOCOL 1:
 - RELEVANT DOCUMENTS, NOV. '92
 - COUNCIL PROCEEDINGS, THRU APRIL '93
 - OUTLINE OF DESIGN, MAY '93
 - REPORT ON PROTOCOL 1, NOV. '93

**SWG-2 MEMBERSHIP
FOR
PROTOCOL 2 DRAFTING**

EC: E. Canobbio
J. Grunwald
P. Kind

RF: L. Golubchikov
Yu. Balasanov
A. Grabov
M. Chaplinsky

JA: S. Aoyama
A. Kitsunezaki
S. Hino
T. Ide
K. Aniya

US: L. Howe
W. Marton
A. Opdenaker
G. Taft
M. Roberts - Chair

TAC TASKS

ITER Council requests TAC to conduct an assessment of the preliminary design being developed by the Director in response to the IC-1 request. This assessment should address the overall concept, machine parameters, the underlying physics basis, the magnet concept, the primary structural materials, including first wall material, and the cost, safety and environmental implications in the context of the technical objectives provided by SWG-1. A comprehensive TAC design review will be conducted at a later date when systems designs and costs have been produced by the JCT.

MAC TASKS

1. Review the work program.
2. Review the tasks and staff allocation to support the JCT taking into account the division of work, in detailed fashion, between the JCT and HTs.
3. Review task agreements for values greater than 300 IUA.
4. Review task agreements for Model Coil Test Facilities for the purpose of making recommendations.
5. Review the task agreements for Procurement of Strand.
6. Review the staffing of Joint Central Team.
7. Review the needs for visiting specialists from HT to JCT.
8. Review Director's proposals of possible Joint Fund arrangement and needs.
9. Review conditions for the involvement of other countries.
10. Review specific contract, payment details and copy right for ITER Process Management System (IPMS).
11. Review the publishing guidelines for technical documents.

**TENTATIVE
AGENDA FOR IC-3 MEETING**

1. Opening
2. Remarks by Parties' Delegations, if any
3. Adoption of the Agenda
4. Approval of IC-2 Minutes
5. Director's Status Report
6. SWG-2 Report
7. Director's Proposals to the Council which have been reviewed by MAC and/or TAC
 - 7(a) - Introduction
 - 7(b) - MAC
 - 7(c) - TAC
8. Further Report by MAC
9. Further Report by TAC
10. Director's New Proposals including Work Programme
11. Reports by Ad Hoc Groups, if any
12. IAEA matters
13. SWG-2 Further Tasks, if any
14. MAC Further Tasks
15. TAC Further Tasks
16. Further Tasks for Ad Hoc Groups, if any
17. Tentative Agenda for IC-4 Meeting
18. Date and Location of IC-4 Meeting
19. Other Business
20. Approval of Record of IC-3 Decisions
21. Adjournment

All relevant documents shall be numbered according to "IC-3/./.."