

# ***INTERNATIONAL DATABASE ON IRRADIATED NUCLEAR GRAPHITE PROPERTIES***

## ***1. Establishment of International Graphite Database***

- 1.1. Pursuant to Article III, paragraph A.3 of its Statute, the International Atomic Energy Agency (hereinafter referred to as the “Agency”) shall establish the International Database on Irradiated Nuclear Graphite Properties (hereinafter referred to as “Graphite Database”) in collaboration with interested Agency Member States and organizations in Member States recognized by those States.
- 1.2. The Graphite Database shall consist of data on the physical, chemical, mechanical and other relevant properties of irradiated nuclear graphites contributed by Member States and organizations in Member States recognized by those States.
- 1.3. The operation of the Graphite Database shall be financed by voluntary contributions from the Graphite Database Members, Associate Members and Database Sponsors.

## ***2. Purpose and Objectives of Graphite Database***

- 2.1. The purpose of the Graphite Database is to preserve and further expand the existing scientific information on the physical, chemical, mechanical and other properties of irradiated graphites (including zero dose) relevant for nuclear power, nuclear safety and other nuclear science and technology applications, and to create a comprehensive international source for such information including reference data.
- 2.2. The Graphite Database shall: (a) facilitate the development of national and international programmes on graphite moderated reactors and fusion technologies, (b) assist the safety authorities in the assessment of safety aspects of graphite moderated reactors, including the safety aspects of reactor decommissioning, and (c) serve as a comprehensive source of scientific information for a broad range of material science applications, including the non-nuclear technology areas.

## ***3. Membership***

- 3.1. Membership in the Graphite Database shall be restricted to Member States of the Agency which are willing and able to provide data relevant to the Graphite Database owned by them or non-governmental organizations within their territories for inclusion in the Database.
- 3.2. To participate in the Graphite Database an official request to this effect (Application for Membership) is to be made by the Member State to the Director General of the Agency. Such request shall include the information prescribed in Section 3.3 below

and a commitment to fulfill the obligations laid down in Section 4.1 below. Those States which are accepted are hereinafter referred to as Graphite Database Members.

- 3.3. A prospective member of the Graphite Database shall provide to the Agency, together with the application for membership, the following information:
  - amount of relevant data offered for immediate inclusion in the Graphite Database,
  - brief description of data offered for inclusion in the Graphite Database (including any access restriction),
  - estimate of the future data contributions to the Graphite Database,
  - statement of acceptance of the obligations stipulated in Section 4.
- 3.4. Every Member State which is a member of the Graphite Database shall appoint a Liaison Officer to act as a co-ordinator and focal point. A Deputy Liaison Officer may also be appointed.
- 3.5. Each Graphite Database Member fulfilling its responsibilities as laid down in Section 4.1 below shall have the same rights and privileges with respect to the Graphite Database.
- 3.6. Member States which are not in possession of data relevant to the Graphite Database, but have a strong interest in the use of such data and in the development of the Graphite Database, may be accepted as Associate Members of the Graphite Database.
- 3.7. A prospective Associate Member of the Graphite Database shall make an official request (Application for Associate Graphite Database Membership) to the Director General of the Agency. Such request shall include the following information:
  - description of the current and future data needs of the Member State which motivate the application for Associate Graphite Database Membership,
  - description of the expected non-data contribution of the applicant to the Graphite Database development and maintenance,
  - statement of acceptance of the obligations stipulated in Section 4.
- 3.8. A Member State which has been accepted as an Associate Graphite Database Member shall appoint a Liaison Officer to act as a Co-ordinator and focal point. A Deputy Liaison Officer may also be appointed.
- 3.9. Each Associate Graphite Database Member fulfilling the responsibilities of Section 4.2 below shall have equal rights and privileges with respect to the Database.
- 3.10. Associate Graphite Database Members shall have access to the Database as described in Section 6 below.
- 3.11. Each Member shall be represented in the Graphite Database by a Liaison Officer officially appointed by that Member. The principal responsibility of the Liaison Officer shall be to co-ordinate the input to the Database from the corresponding Database Member and to see whether it satisfies the accepted standards and format.

#### 4. Responsibilities of Graphite Database Members

- 4.1. A Member of the Graphite Database shall be responsible at its own expense for:
  - 4.1.1. the collection, validation, categorization, specification and appropriate formatting of nuclear graphite properties data relevant to the Graphite Database;
  - 4.1.2. providing periodically, but not less than once a year, to the Agency properly validated, categorized, documented and formatted data owned either by the Member State or non-governmental organization within its territory for inclusion in the Graphite Database;
  - 4.1.3. providing advice and recommendations to the Agency on matters relating to the maintenance, improvement and development of the Graphite Database;
  - 4.1.4. providing information services to and monitoring contact with, to the extent practicable, users of the Graphite Database within its territory and representing users' views at Graphite Database related meetings;
  - 4.1.5. obtaining clearance from each Graphite Database member before providing information derived from the Graphite Database to non-members of the Database.
- 4.2. Each Database Member shall identify which data amongst those provided as input into the Graphite Database shall be treated as restricted. If no explicit indication in that respect is made, the Agency shall treat all such data as restricted, until clarification has been obtained.
- 4.3. An Associate Member of the Graphite Database shall be responsible at its own expense for:
  - 4.3.1. providing information at the meetings of the Steering Committee regarding its needs for irradiated nuclear graphite data;
  - 4.3.2. providing information on the Graphite Database and its use to the users within its territory;
  - 4.3.3. providing advice and recommendations to the Graphite Database Members on matters relating to the use of the Graphite Database.

#### 5. Management of Graphite Database

- 5.1. The Agency shall provide secretariat functions for the Graphite Database.
- 5.2. The principal functions of the Agency Secretariat, subject to availability of funds, are:

- 5.2.1. the management of the Graphite Database to ensure that its rules and procedures are correctly implemented and the efficient operation and continued improvement of the Graphite Database. The Secretariat shall take into account the interests of all Graphite Database members, including those with associate status, in managing the operation of the Graphite Database;
- 5.2.2. the integration of input from Graphite Database members into the Graphite Database files, including checks for scope and format consistency;
- 5.2.3. the continuous maintenance and development of the Graphite Database files, in collaboration with Graphite Database Members, including security aspects of the Graphite Database;
- 5.2.4. arranging meetings of the Steering Committee of the Graphite Database and, if necessary, other meetings related to the Graphite Database;
- 5.2.5. preparation and custody of registers of Graphite Database Members, Associate Graphite Database Members and Graphite Database sponsors;
- 5.2.6. administration of the extra budgetary contributions from the Graphite Database Members, Associate Graphite Database Members, and Graphite Database Sponsors in accordance with the Agency Financial Regulations and Rules;
- 5.2.7. training, upon request, of Member's personnel in the preparation and processing of the data input and with data retrieval procedures;
- 5.2.8. security of the Graphite Database in accordance with Section 9 of this Agreement.

## 6. Access to the Graphite Database

- 6.1. Members and Associate Members of the Graphite Database who have fulfilled all requirements specified in Section 4 shall have full access to all data in the Database.
- 6.2. Non-members of the Graphite Database may access un-restricted data in the Graphite Database.
- 6.3. Access to restricted data by non-members shall be through the Agency, and will require the express approval of the Member who supplied the data. Any request by a non-member made to the Agency for the release of restricted data from the Graphite Database shall contain detailed specification of the requested data and a description of the purpose and planned use of the data. The approval of the data supplier and all records of the request shall be entered and kept in a registry by Agency for the life of the Graphite Database.
- 6.4. Any request for access to the Graphite Database by a non-member shall be at its own expense.

- 6.5. Any final product or publication of any user resulting from the use of, or containing information obtained from, the Graphite Database shall refer to and acknowledge the Graphite Database and the data supplier (original data source). Acceptance of such obligation by the data user shall be a condition for release of the data.
- 6.6. The Agency shall have the same rights of access to the Graphite Database as a Member. The Agency may use restricted data in the Graphite Database for analyses, evaluations or for preparing guidelines and recommendations for developing countries without releasing the data.
- 6.7. If a Member of the Graphite Database elects to withdraw from membership, data provided by that Member will remain in the Graphite Database. Restricted data provided by a former Member may be released only with the approval of that Party.

## 7. Steering Committee

- 7.1. There shall be a Steering Committee of the Graphite Database made up of: (a) one representative from each Member State of the Graphite Database appointed by the appropriate national authority, and (b) one representative each of Associate Members. The International Working Group on Gas Cooled Reactors (IWGGCR) shall be invited as observer. A representative of the Agency shall attend meetings of the Steering Committee as an observer.
- 7.2. Members of the Steering Committee shall elect from among themselves a Chairman who shall hold the office for three years. This appointment shall be approved by the Director General of the Agency.
- 7.3. The Steering Committee shall meet once a year. The agenda for each meeting will be prepared by the Agency Secretariat in consultation with the Chairman of the Committee, and issued to the Committee Members at least one month before the meeting.
- 7.4. The programme of the Steering Committee meetings will include:
  - all technical matters relating to data and Graphite Database operation;
  - consideration of annual progress report prepared by the Agency, in cooperation with the Liaison Officers of Graphite Database Members;
  - evaluation of the Graphite Database status and operations, and the progress made in its development;
  - recommendations on the procedures regulating the operation of the Graphite Database;
  - consideration of financial aspects of the Graphite Database and recommending relevant measures and actions;
  - discussion of proposals from the Members and Associate Members of the Graphite Database relating to the operation and development of the Graphite Database.

- 7.5. Urgent decisions or recommendations of the Steering Committee which may be required by the Agency in the process of management and operation of the Graphite Database shall be taken or formulated by the Committee Chairman after obtaining the consent from all available members of the Steering Committee.
- 7.6. The Chairman of the Steering Committee may invite representatives of Graphite Database Sponsors to attend the Steering Committee meetings as observers for obtaining information or advice on specific items of the agenda or following a specific request for attendance from the Sponsors. The invitation will be extended through the Agency.
- 7.7. Participation in meetings of the Steering Committee shall be at the expense of the respective Member, Associate Member or Database Sponsor.

## 8. Database Sponsors

- 8.1. Non-governmental organizations which have made voluntary contributions to the operation and maintenance of the Graphite Database shall be referred to as Database Sponsors.
- 8.2. An appropriate acknowledgment shall be given to the Database Sponsor in all general documents related to the Graphite Database (e.g. WWW home page, etc), with indication of the period of its sponsorship.
- 8.3. A Database Sponsor may access restricted data with the approval of the Member who provided the data.
- 8.4. A Database Sponsor shall be informed about the Agenda of each forthcoming Steering Committee Meeting and may request to be invited to attend the meeting.
- 8.5. A Database Sponsor, may on request, be invited to all technical meetings that may be organized by the Agency in relation with the Graphite Database.

## 9. Security Matters

- 9.1. Responsibility for the security of the Graphite Database shall rest with the Agency. There shall be no release of restricted data other than by the means described below.
- 9.2. Unrestricted data will be made available by the Internet via the database home page.
- 9.3. Restricted data will be held in the Graphite Database by the Agency on a secure system without Internet access and on a separate operating platform from the unrestricted data files. Transmission of these restricted data by the Agency shall be entirely in the form of CD-ROM with appropriate precautions to secure the material in transit.

9.4. Security for transmission of restricted data to the Agency for further inclusion in the Graphite Database shall be the responsibility of the Database Member supplying the data.

9.5. The structure and operating system are specified in the Annex.

10. Change of Status

If the Steering Committee, decides that a Database Member or Associate Member is not adequately fulfilling its responsibilities laid out in Section 4 above, discussions will be initiated and a concerted effort made to bring the Database Member or Associate Member into compliance. A Database Member or Associated Member that has not fulfilled its responsibilities as laid down in Section 4 above for two consecutive years, shall forfeit the right to access the Graphite Database as stipulated in Section 6 above, except in cases where the Steering Committee, is satisfied that the failure is due to conditions beyond the control of the Database Member or Associate Member.

Definitions

“Member State” means a member state of the Agency

“Unrestricted Data” are data published in open literature and those data offered by database Members on behalf of data supplier for free dissemination. All other data are to be regarded as “Restricted Data”.

“Data Supplier” is the originating organization for data within the Member State.