

Original No. INDC(NDS) 004

INDC 235

Summary of INDSWF and INTERIM INDC

Recommendations to IAEA

TABLE OF SUGGESTED AGENCY ACTIVITIES
AND THE AGENDA ITEM UNDER WHICH EACH APPEARED
AT SUCCESSIVE COMMITTEE MEETINGS

	TOPIC	MEETING	MEETING					
			1	2	3	4	5	6
1	2200 M/Soc	✓	3,4	5				
2	Numerical Data Compilation	✓	4	4b	6efgh	10		3(ii)(iii)
3	Facilities	✓	5	3				
4	Continuing INDSWG	✓	6	9		8	1	
5	Bibliographic Compilation	✓		4a	6abcd	2		3(i)
6	Evaluated Data Compilation			4b	6f			
7	Publish Data Regularly			4d				
8	Maintain Tech. Data	✓		4e				
9	Critical Reviews as Suggested by INDSWG or Head N.D.U.			4g	1			
10	Standards	✓		6	1	4		
11	Publish Series of Collected Papers			7				
12	Int. Conf. on Nucl. Data	✓		8		1		1
13	Document Distribution	✓			2	5,9		
14	Panels on Special Topics	✓				3		1
15	Liaison Officers	✓				6(ii)abc		
16	Personnel Exchange					7		

✓ = implemented by IAEA

INTERNATIONAL NUCLEAR DATA SCIENTIFIC WORKING GROUP

Recommendations of the First Meeting

27-31 May 1963

1. In order to foster the exchange of information on nuclear data and especially for purposes of guidance of future plans and deliberations of the INDSWG, all Member States and other organizations working in the nuclear data field are invited to collect and send to the IAEA relevant information on measurement activities in this field.

2. It is urged that all participants of the INDSWG contribute to a joint formulation of a list of specific and general research topics within the nuclear data field, which pertain closely to the needs of atomic energy programmes and which are presently in a poor state of knowledge for reasons of inaccuracy, insufficient measurements, etc.

Such a list will be helpful to those who need data and also to those who are interested in undertaking useful measurements.

3. After several delegates had reported on recent measurements, the INDSWG concluded that the 2200 m/s neutron data for U-235 appeared to be fairly self-consistent but that there were serious discrepancies in the Pu-239 data. The INDSWG, therefore, recommends that the attention of all Member States and other organizations working in the nuclear data field be drawn to this unsatisfactory situation, and that all relevant information be made available to INDSWG in time for discussion at its next meeting. This information should include unpublished measurements, and comments on published measurements, of the neutron absorption, fission and radiative capture cross sections and the average neutron yields ν and η for U-233, U-235, Pu-239 and Pu-241. The INDSWG also recommends that new measurements for Pu-239, especially of σ_f , σ_a and/or η be undertaken as soon as possible.

4. The compilation of nuclear data presents one of the most important problems in international nuclear science. The INDSWG, therefore, urges that the IAEA

- (a) prepare a detailed proposal for activities which the Agency should undertake and which would be adequate to satisfy the world-wide need in the coming years;
- (b) undertake a review of the 2200 m/s neutron cross sections and related constants of the four fissile nuclei U-233, U-235, Pu-239 and Pu-241, in order to start activities in the field;

(c) also begin compilation work in the resonance region for the interaction of neutrons with these fissile nuclei, if sufficient effort is available.

These are activities to which the Agency, because of its international character, is in a unique position to make a substantial contribution. The participation of experts from other organizations would be most advantageous and should be encouraged.

5. It is recommended that appropriate information on nuclear data measuring facilities and major pieces of equipment be prepared for presentation, preferably in written form, at the next meeting of the INDSWG. The question of compiling a directory from such information should be discussed at the next meeting of the group.

6. It is recommended that a second meeting of INDSWG be held in Vienna, if possible on 13-17 January 1964. Participants for this meeting should be invited to submit documents in advance of the meeting, a suggested deadline for receipt by the IAEA being 2 December 1963. N.B.: if sufficient copies are available, 25 copies of each document would be needed; if translation is required arrangements should be made well in advance.

Note applicable to all actions: all information called for in these recommendations should be sent to the IAEA marked for the attention of C.H. Westcott, Chairman, INDSWG.

INTERNATIONAL NUCLEAR DATA SCIENTIFIC WORKING GROUP

Recommendations of the Second Meeting

13-17 January 1964

Agenda item

- 2(a)(1) 1. The INDSWG took note of the information submitted to it concerning the data committees which already exist, have recently been started, or are in the process of organization and which are national, regional or international in scope, viz. the EANDC and those of EURATOM, ENEA ("OR" group), UK, USA, Canada, Japan, India and Poland. The formation of the last two can be regarded as a direct result of the establishment of the INDSWG.

The INDSWG considers that such nuclear data committees, in addition to being valuable instruments for local or regional programme coordination, are most desirable vehicles for fostering international collaboration in this field. One of the rôles of the IAEA should be to act as an intermediary among such groups including those which may be formed in the future.

- 2(a) 2. The INDSWG recommends that the following covering letter, or a reasonable facsimile, be sent with copies of INDSWG-34 and -36 to the governments of all states members of IAEA and other organizations working in the nuclear data field as well as to certain specialists in the nuclear data field (for text of letter see Annex).

- 3(b) 3. All countries which have nominated participants to INDSWG and which have not provided a list of all relevant nuclear data measuring facilities in their countries are reminded that they are requested to submit to the scientific secretary of the Working Group such a list. The submitters may use as a guide the framework originated at the first meeting, but will not be held to it. After receipt of the facility lists of all the participating countries the scientific secretary is to proceed with a draft compilation of a joint facility list for consideration by INDSWG.

- 4 4. The INDSWG has carefully studied and discussed the proposal prepared at its request on Problems of Compiling Nuclear Data (INDSWG-18).

The Working Group is in agreement with the general aspects of the compilation effort as proposed in this document. The following outline describes the basic framework for the program. This description contains some significant changes in the original proposal as presented on page 10 of INDSWG-18. In particular the Working Group wishes to emphasize the necessity for reciprocity in all aspects of the compilation effort. We therefore propose that the technical functions of the IAEA data unit should be to

- a) provide an abstracting and mechanized indexing (e.g. Cinda) system for data not readily accessible to the other bibliographic and indexing organizations.
- b) receive and transmit, regularly or on request, on a reciprocal basis among all member states or organizations working in the nuclear data field, results of measurement and evaluations of nuclear data and store them in suitable form.
- c) co-operate with appropriate compiling groups on a reciprocal basis.
- d) publish data at regular intervals.
- e) maintain files of measurer's or other comments on features, resolution, accuracy, reliability, etc. for all data held in archives.
- f) provide facilities for compilation and limited analysis of data for use of visiting staff and perform such work with its own staff.
- g) undertake critical reviews and other appropriate tasks as determined by INDSWG and the head of the unit.

The prime responsibility of the data unit is to be the execution of the compilation effort outlined above; however, it is recommended that members of the unit be permitted, when feasible, to pursue appropriate research activities at the discretion of the head of the unit.

If these policies are to be satisfactorily implemented the

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Working Group believes that it will be necessary for the I.A.E.A. to increase the staff of the Nuclear Data unit to 6 - 8 professionals plus necessary supporting staff and services. An annual budget rising to a steady state level of about \$ 275,000 would appear to be appropriate for the support of these activities.

It is therefore strongly recommended that after the development by the existing nuclear data unit of a detailed budget, programme of staffing and organizational deployment these activities should start as soon as possible.

The activities of this unit should be periodically reviewed by an independent group such as INDSWG.

5(b)-7(d)

5. In connection with the planned presentation by the Agency at the Third Geneva Conference of a review on nuclear data relevant to reactor design and particularly on the 2200 m/sec neutron data for fissile materials INDSWG suggests that the Agency hires experts for an appropriate time on a consultant basis to help the Nuclear Data Unit in the preparation of this review.

It recommends that the IAEA take appropriate steps to attempt to ensure that the data needed for this work are provided by all member states and organizations active in the nuclear data field.

It suggests that the deadline for submission of this particular paper be postponed as much as possible.

6(b)

6. The group recommends that the Nuclear Data unit collect information on activities and capabilities of standards laboratories in member states and organizations working in the nuclear data field. This information is needed for the next meeting of the INDSWG, in order to discuss the desirability of the establishment of cooperative activities in the standards field. The information should pertain directly to standards within the scope of INDSWG. Further dissemination of the information assembled on standards laboratories should not be undertaken without the approval of INDSWG.

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6(d)

7. The INDSWG recommends that the I.A.E.A. consider publishing a series of volumes of collected papers on Nuclear Data. This series might contain original papers, review articles and compilations of nuclear data. INDSWG believes that such a publication should be possible within the Agency's existing framework of activities.

INDSWG is prepared to assist I.A.E.A. in discussing the precise scope of such a series at its next meeting.

7(e)

8. The INDSWG recommends that the I.A.E.A. hold an International Conference on Neutron Data in 1966. The emphasis at this conference should be primarily on measurements of microscopic cross sections and other quantities which are of use in Reactor design.

8(o)

9. It was the consensus of the group, without dissent, that the next meeting of the INDSWG should be held in the Soviet Union, with Poland as a second choice and India as a third.

It was further recommended that the dates of the next meeting be 9 - 13 November 1964, or alternatively 5 - 9 April 1965. The former date will apply if all countries which sent participants to the first meeting of INDSWG shall have provided to the I.A.E.A., on or before 9th September 1964, documents on measurements activities and facilities as called for in previous resolutions of INDSWG, and shall have nominated a participant to the third meeting. In all other cases the latter date shall apply.

21 January 1964

Approved after circulation to members 19 February 1964

C.H.W.

INTERNATIONAL NUCLEAR DATA SCIENTIFIC WORKING GROUP

Recommendations of the Third Meeting

held at Warsaw

9-13 November 1964

CONFIDENTIAL

4(9)
5(3)

1. The Working Group recommends that the IAEA exchange from time to time with the advice of the INDSWG for the preparation of critical review reports of the status of a specific and limited area of the field of nuclear data measurement. Such reviews should include new developments in techniques of measurement and be detailed with respect to accuracies, energy ranges, discrepancies, etc. Whenever possible these reviews should include descriptions of trends in the fields under consideration and relate them to the needs of atomic energy programmes. These articles should be written with the expectation that they will be published.

5(c)

2. The Working Group recommends that the Nuclear Data Unit inform all INDSWG members on a regular basis of all documents, preprints, reprints concerning Nuclear Data as defined in the footnote, p 11 of INDSWG/22G/2, it receives, possibly excluding those already published in well-known journals.

6(c)

3. The Working Group notes with satisfaction the progress that has been made in the establishment of international cooperation in the exchange of information in the nuclear data field. This is due in no small part to the efforts of the IAEA and its staff. After considering the activities and plans of the IAEA Nuclear Data Unit, as discussed in INDSWG-52, the Working Group, wishing to endorse in principle the programme laid out in this document, recommends however that the IAEA give first priority to the following points:

(a) Arranging a full and continuing exchange on a mutually acceptable basis of bibliographical information among the data centers of the U.S., BNEA, the USSR and elsewhere;

(b) Recommending to the interested member States and international organizations that they adopt a single specialized bibliographic indexing system for nuclear data and where possible establishing a network of readers for bibliographic indexing in those countries or regions not included within the areas of responsibility of the collaborating centers who will report regularly to the IAEA Nuclear Data Unit;

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6(c)
(cont'd)

- (c) Establishing a bibliographic indexing center as part of the functions of the Nuclear Data Unit of the IAEA;
- (d) Providing readout information from the IAEA bibliographic center to those countries not included within the sphere of responsibility of the existing data centers;
- (e) Arranging a full and continuing exchange on a mutually acceptable basis of microscopic nuclear data, as defined in the footnote, p 11 of ICSNU/MGC/2, among the data centers of the US, EMEA, the USSR and elsewhere;
- (f) Examining the kinds of data available for exchange and recommending to the next ICSNU meeting any further steps which may be necessary or desirable to foster these exchanges of data;
- (g) Establishing a system for obtaining those data (indicated in (e) above) for the Nuclear Data Unit of the IAEA and collaborating centers from measuring groups in countries not included within the areas of responsibility of the collaborating data centers;
- (h) Providing reports and readout information on a regular basis and on request to the collaborating centers and to those countries not included within the sphere of responsibility of the existing data centers;
- (i) Providing on a high priority adequate staff and funds for the implementation of the above recommendations.

It is assumed that a frame of references for the operation of the IAEA Nuclear Data Indexing and Compilation Center will be drawn up at an early date.

Vienna, 24 November 1964

INTERNATIONAL ATOMIC ENERGY AGENCY

INTERNATIONAL NUCLEAR DATA SCIENTIFIC WORKING GROUP

Recommendations of the Fourth Meeting

held at Tokyo

10-16 September 1965

Agenda item

4(c) 1. The recommendation to hold an International Conference on Nuclear Data in 1966 is reaffirmed. The INDSWG recommends that the conference be held during October, subject to availability of conference room and interpreters. (See also Annex I.)

5(a)
9(a)(1) 2. INDSWG welcomes the creation within the IAEA Data Unit of a CITMA Centre, and the efforts made by the Agency to establish a network of Readers.

In acknowledging the help to the Data Unit so far given by the three presently existing Centres (USA, EMMA, Obninsk), an appeal is made to continue these efforts, especially as far as it concerns standardization of methods, instruction manuals, dictionaries, etc., taking into account needs of individual Member States and International Organizations, on a worldwide scale. (See also Annex II.)

5(d) 3. The INDSWG recommends that a specialists' meeting be held to discuss cross sections of fissile nuclides in the resonance region, preferably in the first half of 1966. The emphasis of this meeting should be on inter-comparison of data and evaluation of discrepancies.

6(a) 4. With the growing worldwide activity in nuclear science and the state of development of atomic energy which has been reached in the last decade, there is an increasing need for expanded activity in nuclear data standards. It is recognized that much of the actual work in nuclear standards is carried on in the various atomic energy and standards laboratories. Because of the need for inter-comparison of measurements and standards of reference, requirements for nuclear standards will grow.

The INDSWG is of the opinion that the IAEA is the natural international organization to carry a major responsibility in the nuclear standards field on the worldwide scale. The primary rôle of the IAEA should be co-ordinative and catalytic.

It appears, however, that the INDSWG should analyse this matter in more detail before making a specific recommendation to the Agency. Accordingly we recommend that the IAEA convene a small group of

Annex 1.10

6(a) specialists, whose names might be suggested by INDSWG participants, to analyse the technical aspects of the problem (i.e. which standard problems are of the most importance, and the methods and techniques with which to deal with them), and to prepare a report for consideration at the next INDSWG meeting. This group of experts should also take into account any available relevant information concerning the technical programmes of the BIPM and other standards laboratories in this field in the preparation of its report.

In the meantime it is recommended that IAEA arrange for the exchange of standard boron samples to check the uniformity of their isotopic composition.

Action about standard neutron sources should await the final report on the inter-comparison organized by the BIPM.

6(b) 5. As a result of the considerable success of INDSWG activities
8 and the increasing interest of a wider range of nations, reports, documents and translation services necessary to the continuing work may require special budgetary consideration.

The INDSWG respectfully calls the attention of the IAEA to this problem.

6(d) 6. (i) The letter from IAEA to Member States of 13 March 1964 calling for "recipients" did not include provision for collection of information through the IAEA Nuclear Data Unit from countries not having participants in INDSWG. The INDSWG recommends that provision now be made for collection and dissemination of information by the nomination of Liaison Officers from all interested Member States and other organizations working in the nuclear data field and not participating in INDSWG.

(ii) It is proposed that the Agency have Liaison Officers in the nuclear data field to carry out the following functions:

(a) To inform the Nuclear Data Unit of the availability of information (data, compilations, evaluations, CINDA cards, reports, etc.). The Nuclear Data Unit will circulate the list of available information as soon as possible to all listed Liaison Officers and INDSWG participants.

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6(d)

- (b) After each INDSWG meeting, a summary report including a list of all documents will be sent to the Liaison Officers and INDSWG participants by the Nuclear Data Unit. It is recommended that U and R documents automatically go to Liaison Officers.
- (c) It is recommended that Liaison Officers receive a preliminary agenda for each INDSWG meeting as soon as it is prepared. Where active interest in items of an INDSWG meeting is indicated by a Liaison Officer, he may request approval from the IAEA through the Nuclear Data Unit to attend that meeting as an observer at the expense of his own Organization.

(iii) It is proposed that the Agency be advised to seek through official channels the nomination of one Liaison Officer per Member State and other organizations working in the nuclear data field and not participating in INDSWG, with a copy of the letter to already nominated recipients for their information.

6(g)

7. To encourage activities in Member States for nuclear data measurement, compilation and evaluation, the INDSWG recommends support for the exchange and special visits of personnel. It is particularly noted that short-term visits (up to, say, six weeks) will stimulate an exchange of ideas. It is recommended that the Agency consider the possibility of assisting the Member States in these activities.

8

8. The INDSWG notes that very significant progress in international cooperation in the nuclear data field has been accomplished since its inception and that mutual understanding between the participating countries and organizations has been achieved. However, the ad hoc character of the group restricts its effectiveness in many areas of work.

The INDSWG therefore requests that the Director General take the necessary steps to change the committee into one whose activities in the international nuclear data field can be organized on a continuing basis, which presupposes that the members of the committee would be appointed for a longer period of time and that the existing practice of having meetings approximately once a year be retained.

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- 8(a) 9. (i) INDSWG notes that EANDC has offered that special arrangements could be made between EANDC and interested non-OECD countries for a general exchange of documents on nuclear data, on a reciprocal basis. The EANDC has proposed that the exchanges be made through the IAEA Nuclear Data Unit which would receive one copy of each document exchanged for its own use.

The INDSWG recommends that the IAEA Nuclear Data Unit acts as the channel for such exchanges and receives one copy of each document exchanged.

(ii) INDSWG further notes that EANDC has indicated that, whenever it receives requests for EANDC documents from individual scientists and libraries in non-OECD countries, it proposes to answer such requests through the IAEA Nuclear Data Unit.

The INDSWG recommends that the IAEA Nuclear Data Unit agree to the proposed procedure and forward such documents to the requestor when received from EANDC.

- 9(a)(ii) 10. INDSWG requests that the Nuclear Data Unit continue to explore on an experimental basis the possibility of acquiring, compiling and exchanging numerical nuclear data among interested IAEA Member States and international organisations.

- 10(a) 11. It is suggested that the next meeting of INDSWG be held in Vienna immediately after the 1966 Data Conference, if this time and place is convenient for the Secretariat.

The Working Group also reached the following conclusions:

- 5(b) 12. Having considered the reports of the meetings of experts on measurements of $\bar{\nu}$ that were held in Vienna (INDSWG-75) and in Antwerp, the INDSWG -

(i) noted that the criticisms of the Colvin and Sowerby measurement of the absolute value of $\bar{\nu}$ for Cf^{252} which had been raised at the Antwerp meeting were presently being investigated;

(ii) recommended that Diven be asked to state his errors with and without the "superatition" contribution;

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5(b)

- (iii) welcomed the new Australian work on $\bar{\nu}$ ratios and energy dependence, and noted that the Australians would give increased attention to the problem of absolute values if the apparent discrepancy between the boron-pile and liquid-scintillator results was not cleared up;
- (iv) recommended that all relevant information collected by the IAEA Nuclear Data Group be sent to Dr. Symonds, including the final record of the Antwerp discussions when this is available;
- (v) strongly encouraged possible intercalibrations (e.g. of neutron sources and fissile foils) among all interested laboratories;
- (vi) welcomed any other activity using new methods directed towards absolute $\bar{\nu}$ measurements, and recommended that complete information be sent to groups engaged in such activities;
- (vii) considered that the measurements being undertaken on the variation of $\bar{\nu}$ with energy appeared to be sufficient to clear up outstanding questions;
- (viii) considered that further information was required on the energy spectrum of delayed neutrons (INDSWG-75, General Conclusion D).

5(d)

13. The INDSWG recommends that the IAEA, in the future and when appropriate, organize its specialists' meetings as close in place and time as possible to large international meetings on nuclear physics in order that more experts can take part in such specialist meetings at a minimum cost in time and money.

9(a)
(iii)

14. The INDSWG recommends that INDSWG-85 be submitted for publication, with only minor revision, and suggests that -
- (i) the g values obtained from different measurements be listed, as well as the weighted averages;
 - (ii) the tables be extended to higher temperatures (e.g. to 1500°C).

Vienna, 28 September 1965

INTERNATIONAL ATOMIC ENERGY AGENCY

INTERNATIONAL NUCLEAR DATA COMMITTEE

Recommendations of the Fifth Meeting

held in Vienna

25-28 October 1966

Agenda item

13 1) Terms of Reference for the INDC

The Committee requests the Secretariat of the IAEA to elaborate draft terms of reference for the permanent INDC, taking into account the suggestions made by the Committee and included in the informal minutes of this meeting, and formulating the terms in accordance with the Agency's rules of procedure.

12a 2) Computer facilities

The INDC recommends that the Nuclear Data Unit has access to new flexible computer facilities compatible with its needs.

16 3) Paris Conference - Proceedings

109 scientific papers were submitted to this conference and of these 77 were selected for oral presentation. Of the 32 papers not presented orally, many were of high quality and of great general interest, their exclusion being caused by shortage of time and the necessity of suitable geographical representation.

We wish to stress:

- (a) the scientific interest of all the papers, and their direct relation to the activities of the IAEA,
- (b) the special problems created for the authors of the papers not selected for oral presentation in terms of delayed publication, or even complete loss of publication,
- (c) the rather small increase in the total size of the Proceedings by including all the papers.

In view of these points the INDC strongly recommends that the IAEA should publish the Proceedings of the Paris Conference in full.

INTERNATIONAL ATOMIC ENERGY AGENCY
INTERNATIONAL NUCLEAR DATA COMMITTEE

Recommendations of the Sixth Meeting
held in Moscow
29 May-1 June 1967

Agenda item

3 1) Provision for regular symposia and panels

The committee believes that conferences play a different role in the exchange of scientific information than small symposia or panels. Conferences supply a forum for the exchange of information in the whole field whereas small symposia and panels cover a narrow speciality.

The committee expressed the view that it is necessary to allow these small symposia and panel meetings to be placed on the Agency's program of meetings much later than is required by the regular procedures of the Agency. Provision should be made for these meetings to be held with only the approval of the Director General with the topic being specified by the INDC.

The committee recommends that the IAEA provide for the possibility of one small symposium or panel a year in the field of nuclear data. The specialized topic of the symposium or panel will be specified by the INDC at least one year in advance of the time the symposium or panel is to be held.

2) Conferences

The committee was impressed with the success of the Paris conference and recommends that another similar conference on nuclear data be held in the second half of 1969. It would be desirable to hold the conference in Eastern Europe if possible.

Although it is too early to plan the program of the conference in detail, the following topics are suggested for sessions at the conference:

1. thermal and resonance cross sections in non-fissile materials
2. thermal and resonance cross sections in fissile materials
3. elastic and inelastic scattering of neutrons
4. capture cross sections
5. fast neutron reaction and fission cross sections

6. comparison between parameters obtained from microscopic cross sections and integral measurements
7. evaluation of nuclear data
8. standard cross sections

Agenda item

5 3) Order of Priority of Duties Assumed by the Nuclear Data Unit

The International Nuclear Data Committee is concerned that the Nuclear Data Unit should continue to carry out its specified objectives and not diversify its limited manpower and efforts to such an extent that these objectives are inadequately covered. It recommends to the Director General of the IAEA that the Nuclear Data Unit carry out the following activities wherever possible and in the order stated.

- i) The Nuclear Data Unit should continue and extend its present full CINDA activities.
- ii) a) The Nuclear Data Unit should compile neutron data from all published journals, books, proceedings of conferences, etc., and unpublished reports, etc., where available, from all regions within its area not otherwise covered by any regular or recognized Compilation Centres.*
- b) To aid in this work and avoid excessive overloading of the Nuclear Data Unit's manpower, it should encourage regional activities in data compilation, e.g., in India, Australia, etc. The technical staff of the Nuclear Data Unit should make regular field trips to laboratories in its area to stimulate acquisition of data.
- c) All nuclear data information received by the Nuclear Data Unit should be passed on to all other Compilation Centres on a regular basis and with the speed compatible with reasonable storage procedures.

* The other Compilation Centres referred to in this document are at Brookhaven, Obninsk and Sacley.

- iii) "Post-Box" activities.
 - a) Data requests from individuals or centers within the Nuclear Data Unit area, or from external centres, should be passed on to all other centres as rapidly as possible. The data returned in answer to such requests should be forwarded to the requestor and to all other centres in the manner referred to in 3.b).
 - b) All data received by the Nuclear Data Unit from other Compilation Centres should be automatically copied (in the case of tapes, cards, or short papers) and forwarded within a reasonable time to the remaining data centres. (In the case of extensive computer listing, the originating centre should be requested to provide sufficient copies for this purpose.)
- iv) As time permits, all data acquired by the Nuclear Data Unit should be documented (e.g., in CINDU) and should be entered into some storage system (e.g., DASTAR).
- v) Ultimately, as time and effort permit, the Nuclear Data Unit should aim at possessing all data available in all other Centres.

In connection with the above, the International Nuclear Data Committee notes that the Nuclear Data Unit is required to expend appreciable effort in arranging and conducting scientific meetings. The Committee suggests that the Nuclear Data Unit should be encouraged to arrange meetings pertinent to its professional responsibilities, but that meetings of broader scientific scope should not be considered a part of the duties of the Nuclear Data Unit.