

法規名稱：IMPLEMENTING AGREEMENT UNDER THE ARRANGEMENT FOR THE EXCHANGE OF TECHNICAL INFORMATION AND COOPERATION IN NUCLEAR REGULATORY AND SAFETY MATTERS BETWEEN THE TAIPEI ECONOMIC AND CULTURAL REPRESENTATIVE OFFICE IN THE UNITED STATES AND THE AMERICAN INSTITUTE IN TAIWAN RELATING TO PARTICIPATION IN THE USNRC PROGRAM OF SEVERE ACCIDENT RESEARCH

簽訂日期：民國 100 年 08 月 03 日

生效日期：民國 100 年 08 月 03 日

WHEREAS the Taipei Economic and Cultural Representative Office in the United States (hereinafter referred to as "TECRO"), and its designated representative the Atomic Energy Council of Taiwan, has an interest in access to information which has been developed and continues to arise from these programs and wishes to collaborate with AIT by exchanges of reports and data and by sponsoring the assignment of individuals to these programs;

WHEREAS, subject to the availability of personnel, material, and appropriated funds, the U.S. Nuclear Regulatory Commission (hereinafter referred to as "USNRC"), the designated representative of the American Institute in Taiwan (hereinafter referred to as "AIT"), is carrying out programs of research into the effects of severe accidents on nuclear power reactors;

Considering that TECRO and AIT, hereinafter referred to as the Parties,

1. Have a mutual interest in cooperation in the field of nuclear safety research with the objective of improving and thus ensuring the safety of civilian nuclear installations on an international basis;
2. Recognize a need to equitably share both the resources resulting from this research and the effort required to develop those resources;
3. Have cooperated in the past under a joint Agreement on Severe Accident Research between AIT and TECRO from January 1, 2003 through December 31, 2005, and from January 1, 2000 through

December 31, 2002, and under a joint agreement between AIT and TECRO ' s predecessor, the Coordination Council for North American Affairs (CCNAA), before that.

4. Recognize the Arrangement Between the Taipei Economic and Cultural Representative Office in the United States and the American Institute in Taiwan for the Exchange of Technical Information and Cooperation in Nuclear Regulatory and Safety Matters (the Arrangement), which was signed on January 4, 2011, for 5 years, and this cooperation is an implementation thereof;

The Parties have AGREED, in this Implementing Agreement, as follows:

ARTICLE I - PROGRAM COOPERATION

The Parties have agreed, in accordance with the provisions of this Implementing Agreement and subject to applicable laws and regulations in force in the territories they represent, to join together in cooperative research in the area of Severe Accident Research for a period of five years. This Implementing Agreement is not an international agreement and does not give rise to international legal rights or obligations.

ARTICLE II - FORMS OF COOPERATION

Cooperation between the Parties may include:

- A. Exchange of information in the form of technical reports, experimental data, correspondence, newsletters, visits, joint meetings, and such other means as the Parties or their designated representatives agree.
- B. Temporary assignment of personnel of the designated representative of one Party or of the designated representative ' s contractors to the laboratory or facilities owned by the designated representative of the other Party or in which the designated representative of the other Party sponsors research. Each assignment shall be

considered on a case-by-case basis and may be the subject of a separate attachment-of-staff arrangement between the Parties.

- C. Execution of joint programs and projects, including those involving a division of activities between designated representatives of the Parties. Each joint program and project will be considered on a case-by-case basis and may be the subject of a separate agreement, if determined to be necessary by either of the Parties to this Implementing Agreement or their designated representatives. Otherwise, it will be accomplished by the exchange of letters between the designated representatives of the Parties, subject at least to the terms and conditions of this present Implementing Agreement.
- D. Use by the designated representative of one Party of facilities that are owned by, or in which research is being sponsored by, the designated representative of the other Party. Use of facilities may be subject to commercial terms and conditions.
- E. If either Party, or designated representative, wishes to visit, assign personnel, or use the facilities owned or operated by entities other than the Parties to this Implementing Agreement, the Parties recognize that prior approval by such entities will, in general, be required regarding the terms upon which such visit, assignment, or use shall be made.
- F. Any other form agreed between the Parties.

ARTICLE III - SCOPE OF IMPLEMENTING AGREEMENT

A. TECRO Scope of Responsibility

Subject to the availability of appropriated funds, the designated representative of TECRO will perform or provide the following specified goods and services related to the nuclear reactor safety research areas specified in this Implementing Agreement:

- (a) Information to AIT ' s designated representatives about their severe accident research projects as described in the Appendix, Part II.
- (b) Copies of reports, technical memoranda, and notes which are derived from its analyses using codes and data obtained from the in AIT ' s designated representative ' s severe accident program, and which are at the disposal of TECRO or designated representative.
- c) All updates, modifications, and corrections made by TECRO or its designated representative to codes that have been supplied by AIT ' s designated representative and documentation sufficient to enable an evaluation to be made by AIT ' s designated representative.
- (d) Timely access to the results of TECRO or its designated representative ' s safety research corresponding to those technical areas which constitute the scope of this cooperation.

B. AIT Scope of Responsibility

Subject to the availability of appropriated funds and TECRO financial contributions as indicated in Article VII, the designated representative of AIT will perform or provide the specified goods and services related to the nuclear reactor safety research area specified in the Appendix and as follows:

- (a) Copies of all pertinent technical program documents such as quick-look reports, technical memoranda and notes, and laboratory reports as soon as they have received appropriate by AIT ' s designated representative.
- (b) On request, make available to TECRO the relevant severe accident codes and related documentation developed under this program and limited assistance to the designated representatives of TECRO in the application of these codes and other related codes which may be available to AIT ' s designated representative for transfer to TECRO.
- (c) Permit personnel sponsored by the designated representatives

of TECRO to participate in technical review meetings and technical progress meetings except for those meetings primarily concerned with administrative and fiscal matters.

ARTICLE IV - ADMINISTRATION OF THE IMPLEMENTING AGREEMENT

- A. The designated representatives of AIT and TECRO will each designate one individual to coordinate and determine the detailed implementation of this Implementing Agreement. These individuals may, at their discretion, delegate this responsibility to the appropriate technical staff with respect to a given issue. The designated individual will be referred to as an Administrator of this Implementing Agreement. Any notices required under this Implementing Agreement will be addressed to the Administrators using the most efficient communication method.
- B. This Implementing Agreement sets forth in Article V restrictions concerning dissemination of proprietary, confidential, or privileged information. Other information that may be restricted includes matters related to organization, budget, personnel, or management.
- C. The designated representatives of AIT and TECRO will endeavor to select technical personnel for assignment to these cooperative programs who can contribute positively to the programs. The designated technical personnel assigned for extended periods will be considered visiting scientists (nonsalaried) within the programs in this Implementing Agreement and will be expected to participate in the conduct of the analysis and/or experiments as necessary.
- D. Each Party to this Implementing Agreement will have access to all nonproprietary reports written by the other Party's technical personnel assigned to the respective programs that derive from its participation in this Implementing Agreement.
- E. Administrative details concerning questions such as security, indemnity, and liability related to the assignees or trainees will be addressed in personnel assignment agreements between

the respective Parties.

- F. Travel costs, living expenses, and salaries of visiting technical personnel or personnel participating in program review meetings will be borne by their respective organizations.

ARTICLE V - EXCHANGE AND USE OF INFORMATION AND INTELLECTUAL PROPERTY

A. General

The Parties support the widest possible dissemination of information provided or exchanged under this Implementing Agreement, subject to the need to protect proprietary and other confidential or privileged information which is protected from public disclosure under the laws and regulations of the country of the Party providing the information, or is otherwise restricted by the provider. The exchange and use of information provisions contained in Article III of the Arrangement (including the Annex: Protection and Distribution of Intellectual Property Rights and Other Rights of a Proprietary Nature which it references) will govern this Implementing Agreement.

B. Other Considerations

1. Nothing contained in this Implementing Agreement will preclude a Party from using or disseminating information received without restriction by a Party from sources outside of this Implementing Agreement.
2. All AIT designated representative 's computer codes disseminated under this Implementing Agreement are to be considered privileged information unless otherwise noted, are protected as such by the designated representatives of AIT, and shall be treated likewise by the designated representatives of TECRO. They are, in particular, subject to all the provisions of this Article prior to dissemination, with the exception that they need not be marked with the restrictive designation. The codes are

subject to this protection in both object and source forms and as recorded in any media.

3. AIT's designated representative's codes and other related analytical techniques covered under this Implementing Agreement and any improvements, modifications, or updates to such codes or techniques, are for the purpose of reactor and plant systems safety research and licensing and will not be used for commercial purposes or for other benefits not related to the study of reactor safety without the prior consent of AIT and its designated representative.
4. Among the code uses that will be permitted under this Implementing Agreement are those related to research in the reactor safety area and analyses performed by the Parties' designated representatives, or their contractors that can assist regulators and plant personnel in assessing the safety of the plant, analyzing operating events, and training of operators. Specific examples of permitted analyses include design basis accidents (e.g., loss-of-coolant accidents), anticipated transients, accident management and emergency operating procedures, mid-loop operation, analyses to support probabilistic risk assessment success criteria, power uprates and reload, and severe reactor accidents.

Prohibited uses of the code include (1) analyses to develop a new reactor design and (2) analyses to support power uprates and reload in the territory of the authorities represented by AIT unless performed by a subsidiary of AIT's designated representative.

5. AIT's designated representative's codes and other related analytical techniques will not be advertised directly or by implication to obtain contracts related to the construction or servicing of nuclear facilities, nor will advertising imply that AIT's designated representative has endorsed any particular analyses or techniques.

6. All reports published within the scope of this Implementing Agreement and all meetings held will be in English.

ARTICLE VI - DISPUTES AND WARRANTY OF INFORMATION

- A. Information furnished by one Party to the other under this Implementing Agreement will be accurate to the best knowledge and belief of the Party supplying the information. However, the application or use of any information exchanged or transferred between the Parties under this Implementing Agreement will be the responsibility of the Party receiving the information, and the Transmitting Party does not warrant the suitability of the information for any particular use or application.
- B. AIT and its designated representative make no warranties, whatsoever, for the ability or suitability of any code or other analytical technique to perform in any particular manner for any particular purpose or to accomplish any particular task. AIT and its designated representative accept no liability for damages of any type that may result from the use of codes or other analytical techniques provided under this Implementing Agreement.
- C. Cooperation under this Implementing Agreement will be in accordance with the laws and regulations applicable in the respective territories represented by AIT and TECRO. Any dispute or questions between the Parties concerning the interpretation or application of this Implementing Agreement arising during its term will be settled by mutual agreement of the Parties.

ARTICLE VII - FINANCIAL CONSIDERATIONS

- A. All costs arising from implementation of this Implementing Agreement will be borne by the Party that incurs them except when the Parties specifically agree otherwise. It is understood that the ability of the Parties to carry out their obligations is subject to the availability of funds. It is

also understood that the terms herein agreed to represent feasible commitments according to the best understanding regarding resources and costs of the Parties at the time of signature.

- B. In addition to the technical contributions indicated under Article III.B, TECRO will contribute financially to the programs of AIT and its designated representative included in this Implementing Agreement. Upon signature of this Implementing Agreement, TECRO will contribute US \$50,000.00 per year through AIT to continue to participate in the Cooperative Severe Accident Research Program. This payment will be followed by annual payments of US \$50,000.00 for the duration of the Implementing Agreement.

ARTICLE VIII - FINAL PROVISIONS

- A. This Implementing Agreement will enter into force upon signature and shall remain in effect for a period of 5 years, provided that the underlying Arrangement will be renewed. This Implementing Agreement may be amended or extended for an additional period of time via an exchange of letters of the Administrators.
- B. The Parties enter into this Implementing Agreement with the understanding that reasonable allowances for normal delays will be made in completing the work. The Parties have the right to utilize information provided under this Implementing Agreement after the expiration date; however, all information protected by provisions of this Implementing Agreement as proprietary, confidential, privileged, or otherwise subject to restriction on disclosure will remain so protected indefinitely, unless mutually agreed to in writing.
- C. A Party may terminate this Implementing Agreement after providing the other Party written notice of its intent to terminate 180 days in advance. The Party not terminating will notify the terminating Party before the effective date of termination if termination will result in the terminating

- Party receiving a disproportionate share of the expected benefit from this Implementing Agreement. Both Parties will endeavor to reach an equitable settlement of the matter through negotiation.
- D. The Parties to this Implementing Agreement reserve the right to modify or extend the specific activities described in Article III within the intended scope of the Implementing Agreement upon written concurrence of its Administrators.
- E. If the portion of the research program of any Party that is pertinent to this Implementing Agreement is substantially reduced or eliminated, the technical scope described in Article III may be revised to substitute research of equivalent programmatic interest upon mutual agreement of the Parties.

IN WITNESS WHEREOF, the Parties have signed the present Implementing Agreement.

FOR THE TAIPEI ECONOMIC AND CULTURAL REPRESENTATIVE OFFICE IN THE UNITED STATES:

FOR THE AMERICAN INSTITUTE IN TAIWAN:

TaTung Chang
Deputy Representative

August 3, 2011
Washington D.C.

Barbara J. Schrage
Managing Director

April 19, 2011
Washington D.C.

APPENDIX

Part I. AIT DESIGNATED REPRESENTATIVE SEVERE ACCIDENT RESEARCH PROGRAM

● Integrated Severe Accident Code

- MELCOR code development, assessment, and maintenance
- MELCOR Cooperative Assessment Program (MCAP)
- MELCOR code workshop



- MELCOR plug-in for SNAP
- Cooperative severe accident research program (CSARP) annual review meetings
- Symbolic Nuclear Analysis Package (SNAP). SNAP is a graphical user interface and provides a computational environment currently with pre-processor capabilities that assist the user in the development of MELCOR input decks and in running the code. SNAP and the MELCOR plug-in will be provided. Subsequent updates of SNAP and associated documentation that are released during the Implementing Agreement period will also be provided.

APPENDIX

Part II. TECRO DESIGNATED REPRESENTATIVE SEVERE ACCIDENT RESEARCH PROGRAM

- Severe Accident Code
 - Improved MELCOR analytical models
 - Verification and validation of MELCOR models
- Severe Accident Code Experience
 - Experiences from analyzing nuclear power plants in Taiwan
 - Severe Accident management analysis