

MEMORANDUM OF UNDERSTANDING

BETWEEN

THE DEPARTMENT OF TRANSPORTATION OF THE UNITED STATES OF AMERICA

AND

THE MINISTRY OF TRANSPORT OF CANADA

CONCERNING RESEARCH AND DEVELOPMENT COOPERATION IN TRANSPORTATION

ADDENDUM NUMBER 2:

MAINLINE RAIL TRANSPORTATION SYSTEMS AND TECHNOLOGY RESEARCH

- I. This document is an Addendum to the Memorandum of Understanding of June 18, 1970, between the Department of Transportation of the United States of America (referred to below as DOT) and the Ministry of Transport of Canada (referred to below as Transport Canada) concerning research and development cooperation in transportation, and is entered into pursuant to that Memorandum of Understanding.
- II. The purpose of this Addendum is to promote mutually beneficial cooperation in the field of mainline rail transportation systems and technology research.
- III. The cooperative activity described in this Addendum will be carried out for DOT by the Federal Railroad Administration (FRA) and for Transport Canada by the Transport Canada Research and Development Centre (TDC).
- IV. In order to realize the purpose set forth in Section II above, it is agreed that:
 - a) FRA and TDC will exchange information and will conduct joint cooperative activities, in the particular areas identified in Section V below and in such additional areas as may subsequently be agreed.
 - b) Exchanges of information in the identified areas will proceed on the basis of this Addendum. However, at the request of either FRA or TDC, and in any case where cooperative activity may involve cost-sharing or task-sharing, written project arrange-

ments will be concluded. These arrangements will prescribe the respective commitments of FRA and TDC with regard to the information to be exchanged, the particulars and schedules of work to be accomplished, and the details of any cost-sharing.

- c) DOT and Transport Canada will each designate a Program Coordinator for the purpose of this Addendum. The Program Coordinators are authorized, subject to their respective national laws and regulations, to:
1. Conclude project arrangements;
 2. Designate project officers responsible for each of the areas of mutual interest identified in Section V below or subsequently agreed; and
 3. Arrange for regular reviews of the status of the program established by this Addendum.
- d) FRA and TDC, separately, will each bear the direct costs of its participation in cooperative activity pursuant to this Addendum. It is understood that cooperative activities are subject to the availability of funds. Transfer of funds between DOT and Transport Canada is not envisaged except as may be provided in supplemental project arrangements.
- e) In connection with exchanges of technical data between FRA and TDC, any conditions or limitations placed upon further dissemination of the data by the agency providing it will be respected by the recipient.

f) The nature and timing of any reports arising from task-sharing and cost-sharing projects will be provided for in the relevant project arrangements. Any project participant will have an opportunity to review and comment upon the draft reports prior to their publication. Dissenting views of project participants will be included in final reports.

g) FRA and TDC will seek to assure the accuracy of all data and information exchanged pursuant to this Addendum, but the accuracy of such data and information is not guaranteed, and neither agency will hold the other responsible with respect thereto.

V. The following are identified as initial areas of mutual interest for the purposes of this Addendum:

- a) Flywheel energy storage systems;
- b) Environmental/noise abatement research; and
- c) Track/train dynamics research.

VI. This Addendum comes into effect upon signature and will remain in effect subject to six months' written notice of termination by either signatory to the other, provided that such task-sharing or cost-sharing projects ongoing at the time of termination as may be the subject of separate project arrangements will be completed in accordance with their agreed terms and schedules.

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VII. Proposals for the amendment of this Addendum may be amended by mutual consent of DOT and Transport Canada at any time.

For the United States
Department of Transportation

For Transport Canada



Joyce J. Mack
Acting Director
Office of International
Transportation Programs



Peter H. Aykroyd
Assistant Deputy Minister
Research and Development
Transport Canada

Date: May 8, 1979

Date: May 17, 1979