

# Appendix

# Appendix

## United States Senate

COMMITTEE ON BANKING, HOUSING, AND  
URBAN AFFAIRS

WASHINGTON, D.C. 20510

May 19, 1980

The Honorable Morris K. Udall, Chairman  
Technology Assessment Board  
Office of Technology Assessment  
U.S. Congress  
Washington, D.C. 20510

Dear Mr. Chairman:

We understand that the Board is considering an OTA study of the relationship between U.S. technology exports and Russian energy development. The Banking Committee has jurisdiction over export control policy as well as export promotion. The Committee rewrote the Export Administration Act last year in order to establish a more efficient control policy. Additional legislation to improve export controls, especially those directed toward the Soviet Union, is under consideration by the Committee this year.

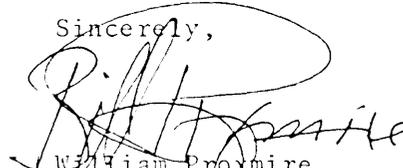
One of the most important unresolved issues is U.S. policy toward exports which could contribute significantly to Russian energy development, in particular, exploration, recovery and transportation of oil and gas from the large reserves located in the U.S.S.R. Among the unanswered questions are: (1) how much difference could U.S. technology make to the Russian situation over the next decade; and (2) how effective could U.S. export controls be in retarding Soviet energy development or, alternatively, facilitating energy development but avoiding transfer of technology which could enhance Soviet strategic capabilities?

We believe an unclassified assessment of the issue should be prepared and made available to the Congress and general public. Accordingly, we join the House Foreign Affairs

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affairs Committee in requesting OTA to conduct a study of the contribution American--as opposed to other Western-- technology might make over the next decade to Soviet energy availability, with special attention to the potential impact of alternative U.S. export control policies.

Sincerely,



William Proxmire  
Chairman

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## Congress of the United States

### Committee on Foreign Affairs

House of Representatives  
Washington, D.C. 20515

May 2, 1980

JOHN J. BRADY, JR.  
CHIEF OF STAFF

The Honorable Morris Udall  
Chairman  
Office of Technology Assessment  
235 Cannon House Office Building  
Washington, D. C. 20515

Dear Mr. Chairman:

Future relations between the United States and the Soviet Union will almost certainly be shaped in part by issues arising from energy supply and demand. The U. S. intelligence assessment is that the Soviet bloc will be forced to import petroleum by 1985, and the Soviets have acknowledged that they face impending problems in maintaining current levels of oil and gas production and delivery. The implications for the U. S. of Soviet entry onto world oil markets are enormous. Congress should, therefore, be aware of ways in which the U. S. could influence Soviet energy production.

One critical area of uncertainty is the manner and extent to which U. S. technologies could affect Soviet oil production and, thereby, Soviet energy policies.

Little is known about the potential contribution of American technology to Soviet energy development, or precisely how American equipment compares technically to that available from other Western countries. It is often difficult to identify sole or unique suppliers of equipment and technology, and to determine the costs to the importer of resorting to second best choices. Better analysis in this area could have important implications for U.S. policies on exporting energy technology.

As Chairman of the House Foreign Affairs Committee, I request that the Office of Technology Assessment conduct a full-scale assessment of the possible effects of American technology upon Soviet energy availability during this decade. Such a study could draw partly upon the material OTA has already assembled for its recent major study on Technology and East-West Trade.

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May 2, 1980  
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The study should address the following questions:

First, what equipment and technology are needed by the Soviet Union for its energy resources? In particular, what is the role of advanced computers and computer systems in expanded energy production? This may be partly illuminated by analysis of past energy technology purchases.

Second, what problems inhibit the applicability and the efficient use of imported energy technology in the U.S.S.R.? Such problems might range from geology, infrastructure, and lack of trained manpower to inappropriate institutional structures. What affect will particular foreign technologies have upon these problems?

Third, to what extent is the United States the sole or preferred supplier of energy technologies likely to be sought by the U.S.S.R. , and what is the nature of and capabilities of those technologies?

Fourth, what would be the near or medium term (to 1990) impacts on Soviet oil (or other energy) production of either an expansion or contraction of American energy technology exports?

Your cooperation in this matter would be greatly appreciated.

With best wishes, I am

Sincerely yours,



Chairman

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DON FUQUA, FLA., CHAIRMAN

HAROLD P. HANSON  
EXECUTIVE DIRECTOR  
PHILIP B. YLAGER  
MEMBER OF CONGRESS

March 27, 1981

Honorable Ted Stevens , Chairman  
Technology Assessment Board  
Office of Technology Assessment  
Washington, D. C . 20510

Dear Mr. Chairman:

We understand that the Office of Technology Assessment is currently engaged in a study of the relationship between Western technology exports and Soviet energy development. As you may know, the House Committee on Science and Technology has a continuing interest in the implications of technology trade between the United States and other nations.

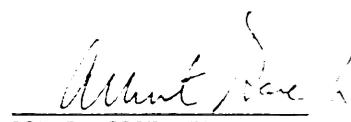
One important unresolved issue in this area is U. S. policy towards exports which could contribute significantly to Soviet energy development, in particular, exploration, recovery and transportation of oil and gas from the large reserves located in the U.S.S.R. Among the unanswered questions are: (1) how much difference could U. S. technology make to the Russian situation over the next decade; and (2) how effective could U.S. export controls be in retarding Soviet energy development or, alternatively, facilitating energy development, but avoiding transfer of technology which could enhance Soviet strategic capabilities?

We believe an unclassified assessment of these issues will be valuable to the Congress and general public. Accordingly, we wish to join the House Foreign Affairs Committee and Senate Banking Committee in endorsing this study of the contribution American -- as opposed to other Western -- technology might make over the next decade to Soviet energy availability.

Sincerely,



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DON FUQUA  
Member of Congress



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ALBERT GORE, JR.  
Member of Congress

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