

Originally Processed With FOIA(s):
2005-0336-F

FOIA Number:
2005-0336-F

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Series: Bromley, D. Allan, Files
Subseries: General Science Files

OA/ID Number: 62044
Folder ID Number: 62044-011

Folder Title:
Physical Sciences - KAON [1992]

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THE WHITE HOUSE

WASHINGTON

October 29, 1992

NOTE FOR D. ALLEN BROMLEY

FROM: ROBERT B. ZOELLICK *RBZ*

I received your memo to the Chief of Staff regarding a possible call to the President from Canadian Prime Minister Mulroney to discuss U.S. support for the Canadian KAON project construction. My office will forward your memo to Mr. Baker, who is traveling with the President through the election.

I note that you recommend the State Department initiate discussions with the Canadians on this issue. Could you please work with the NSC to determine what the State Department's position is on the course of action you recommend?

Thanks very much.

cc: General Scowcroft

THE WHITE HOUSE
WASHINGTON

October 29, 1992

MEMORANDUM FOR JAMES A. BAKER, III

FROM:

D. ALLAN BROMLEY

Mul

SUBJECT:

POSSIBLE TELEPHONE CALL FROM PRIME MINISTER
MULRONEY OF CANADA TO THE PRESIDENT

My sources in Canada tell me that there is a reasonable probability that Mr. Mulroney will place a call to the President within the next few days concerning U.S. support for the Canadian KAON project construction.

I am enclosing a copy of my earlier memorandum to you, dated October 5, concerning this matter since it provides all the necessary background.

You should also know that Secretary Watkins has responded, on behalf of the Department of Energy, to Canadian Minister of Science and Technology, William Winegard, and British Columbia Minister of Finance and Corporate Relations, Glen Clark, indicating that DOE will be unable to provide the originally discussed \$75 million over the next five years. I am enclosing herewith a copy of the contents of the Watkins' response as reported in cable traffic. It is consistent with the expectation expressed in my earlier memo.

My recommendation remains as before -- that you request the State Department to initiate discussions with the Canadians to arrange a U.S. contribution to the KAON construction and a Canadian one to our SSC construction in Texas. I remain convinced that this is a win-win position and that unless we take some such action we will lose vastly more good will than the actual amounts of funding involved would justify.

Enclosures

THE WHITE HOUSE
WASHINGTON

October 5, 1992

MEMORANDUM FOR JAMES A. BAKER III

FROM:

D. ALLAN BROMLEY

Allan

SUBJECT:

THE SSC AND A CANADIAN PROJECT, KAON

I understand that Kim Campbell, Canadian Minister of Justice and the member of the Canadian Cabinet with special responsibility for the Province of British Columbia, will contact either DOS or you to request that the U.S. join Canada in constructing a major research facility, KAON, in British Columbia. This will be a world class facility for particle and nuclear physics with unique capabilities on the high-intensity frontier.

- o Canada proposes to build and operate KAON, but requires that 1/3 of the approximately \$1 billion (Canadian) construction cost be provided by non-Canadian sources. Canada will assume responsibility for operating costs and the 2/3 of the construction costs are to be divided equally between the federal government and the Province of British Columbia.
- o This facility has been under consideration for several years and an equivalent facility was proposed several years ago for construction at the Los Alamos Scientific Laboratory. The strength of both was the ability to study very rare and correspondingly important fundamental interactions in particle and nuclear physics.
- o DOE and NSF requested input from a panel of experts in 1989. It recommended that we not build the U.S. machine but rather support the Canadian construction with a total of \$75 million over a 5 year construction period. The panel considered this a very cost effective approach since it was known that Canada would pay all operating costs while some 33% of the scientific users would be American. The construction cost for the competing Los Alamos facility was proposed originally as about \$750 million. Clearly only one such facility is required in North America.

0 DOE has been negotiating with Canada, in parallel with KAON discussions, to obtain a Canadian commitment to contribute to the construction of SSC and an MOU has been signed by DOE and the Canadian Commercial Corporation to facilitate this. These negotiations are still in progress and no definite figures have been discussed although there is clear interest in the Canadian particle physics community in having Canada participate.

0 In November of 1990 at the invitation of the Speaker of the Canadian House of Commons, John Fraser, I visited Ottawa and had discussions with the Deputy Prime Minister and several Cabinet members including Kim Campbell. Having checked with DOE (Jim Decker, Acting Director OER) in advance I indicated to the Canadians that if they decided to move forward with KAON, DOE expected to respond to the advice of its advisory committee and provide \$75 million over 5 years toward the construction.

0 Subsequently Henson Moore, while Deputy Secretary of Energy, also visited Ottawa and made similar statements to senior Canadian officials.

0 After substantial delay the Canadian federal government and the provincial government have recently announced their joint intention to proceed with the KAON project -- with the proviso, similar to that for our SSC project, that one third of the total cost be borne by non-governmental funds.

0 Because DOE's appropriations are almost certainly going to be less than the President requested in FY '93 and, because, in addition, political pressures have forced DOE to include a new injector for the Fermilabs accelerator -- which they did not want -- in their program, senior DOE officials now takes the position that they simply do not have the \$15 million dollars per year, over the next 5 years, to devote to KAON construction.

0 If there is no U.S. contribution to this construction other contenders for funding in Canada will probably kill the KAON project claiming that the U.S. backed away from its earlier commitment and thus is to blame for the project failure.

0 Because such action could poison U.S./Canadian relations I would recommend a symmetrical arrangement whereby Canada contributes to the SSC and we contribute to KAON. This seems to me to have a win-win potential.

0 Canada -- and OSTP -- view the KAON issue as a government-to-government one that would require State Department involvement. Secretary Watkins has stated that he views it as a White House rather than DOE matter. Both DOE and NSF support research in the relevant areas but neither has funds available in existing programs to provide the \$75 million in question.

0

U.S. scientists have given KAON science high priority as excellent science providing U.S. scientists with access to a unique, high intensity, hadron facility. The formal Nuclear Science Advisory Committee recommended the project in 1989 and reaffirmed that recommendation this year. It is clear however that neither DOE nor NSF can provide the necessary funding from their research budgets.

RECOMMENDATION:

I would suggest that you respond to Minister Campbell with an indication of U.S. interest and that you request State to initiate discussions with the Canadians to achieve the above mentioned symmetric arrangement.

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(14) ACTION: SCI 3 AMB DCM POL POLA E-MIN ECON FCS NSF DAO DOE USIS
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RUEHOT/AMEMBASSY OTTAWA PRIORITY 9932

RUEHGA/AMCONSUL CALGARY PRIORITY 8369

RUEHHA/AMCONSUL HALIFAX PRIORITY 5384

RUEHMT/AMCONSUL MONTREAL PRIORITY 6833

RUEHQU/AMCONSUL QUEBEC PRIORITY 4955

RUEHKO/AMEMBASSY TOKYO PRIORITY 3623

RUEHON/AMCONSUL TORONTO PRIORITY 4221

BT

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PLEASE PASS TO SCICOUN

E.O. 12356: N/A

TAGS: TSFA,

SUBJECT: GUIDANCE ON USG CONTRIBUTION TO KAON

REF: A) VANCOUVER 1512 B) OTTAWA 3242 C) OTTAWA 5977

1. FOLLOWING IS THE TEXT OF LETTERS DATED SEPTEMBER 23, 1992, FROM SECRETARY OF ENERGY JAMES D. WATKINS THAT WERE SENT TO THE MINISTER OF SCIENCE WILLIAM C. WIVEGARD OF CANADA, AND TO MINISTER OF FINANCE AND CORPORATE RELATIONS GLEN CLARK OF BRITISH COLUMBIA.

2. BEGIN TEXT:

DEAR MR. MINISTER:

THANK YOU FOR YOUR LETTER OF JULY 10, 1992, IN WHICH YOU SEEK AN INDICATION OF UNITED STATES SUPPORT FOR IMPLEMENTATION OF THE PROPOSED KAON FACTORY.

DR. WILLIAM HAPPER, DIRECTOR OF THE OFFICE OF ENERGY RESEARCH, MET WITH A CANADIAN DELEGATION LED BY MR. STANLEY EAGEN ON AUGUST 17, 1992. HE EXPLAINED THE DEPARTMENT OF ENERGY FUNDS & CONSTRAINTS, THE STATUS OF

OUR NUCLEAR PHYSICS PROGRAM, AND OUR POSITION WITH REGARD TO PARTICIPATION IN THE CONSTRUCTION OF THE KAON FACTORY.

SINCE YOUR GOVERNMENT BEGAN DISCUSSIONS WITH THE DEPARTMENT OF ENERGY ON THE SUBJECT OF THE KAON PROJECT, OUR FISCAL SITUATION HAS CHANGED. WE ARE CONTINUING THE CONSTRUCTION OF TWO MAJOR FACILITIES, THE RELATIVISTIC HEAVY ION COLLIDER AND THE CONTINUOUS

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ELECTRON BEAM ACCELERATOR FACILITY, IN THE FACE OF DECLINING BUDGETS. THIS IS FORCING THE EARLY PHASEOUT OF SOME OF OUR OWN FACILITIES AND LIMITS OUR ABILITY TO EXPAND OUR PROGRAM. WE ARE, THEREFORE, UNABLE TO MAKE ANY COMMITMENT TO CONSTRUCTION OF THE KADV PROJECT AT THIS TIME. NEVERTHELESS, I WOULD LIKE TO WISH YOU SUCCESS IN YOUR CONTINUING EFFORTS TO BUILD THIS VALUABLE SCIENTIFIC FACILITY.

SINCERELY

JAMES D. WATKINS
ADMIRAL, U.S. NAVY (RETIRED)

END TEXT.

3. PLEASE ADVISE IF FURTHER GUIDELINES IS REQUIRED.

KANTER

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THE WHITE HOUSE
WASHINGTON

July 22, 1992

Gentlemen:

I was most heartened by the news in your letter of July 10 that Canada is prepared to move forward with the construction of the KAON facility in Vancouver.

I have forwarded your request for a formal financial commitment to Admiral James Watkins, Secretary of Energy, for his response. I hope that the international science community and Canada will make this exciting project a reality.

Sincerely yours,

A handwritten signature in black ink, appearing to read "D. Allan Bromley", with a long horizontal stroke extending to the left.

D. Allan Bromley
The Assistant to the President
for
Science and Technology

cc: Admiral James D. Watkins

The Honorable William C. Winegard
Minister for Science
Government of Canada
Ottawa, Canada K1A 0H5

The Honorable Glen Clark
Minister of Finance and Corporate
Relations
Government of British Columbia
Victoria, British Columbia V8V 1X4

THE WHITE HOUSE

WASHINGTON

July 22, 1992

MEMORANDUM FOR SECRETARY JAMES D. WATKINS
DEPARTMENT OF ENERGY

COPY TO: W. HENSON MOORE
DEPUTY CHIEF OF STAFF TO THE PRESIDENT

FROM: D. ALLAN BROMLEY 
THE ASSISTANT TO THE PRESIDENT
FOR SCIENCE AND TECHNOLOGY

SUBJ: CANADIAN KAON PROJECT

As you know, Canada has been considering building a large accelerator (KAON) in British Columbia. The Canadians now have decided to proceed with this project and are requesting financial commitments from prospective foreign partners, including the United States. I am forwarding their letter of request to you for your response.

The U.S. Nuclear Science Advisory Committee (NSAC) was charged in 1989 by DOE and NSF to advise on the possibility of U.S. participation in KAON. An NSAC Subcommittee chaired by Professor Herman Feshbach of MIT concluded that the requested investment of \$75 million, spread over five years, would be very cost-effective for the U.S. and that the accelerator would "make a broad range of phenomena of fundamental importance accessible to experimental study." The Subcommittee noted additional cost savings in that the U.S. would not be expected to share operating expenses for the facility and that by participating in the Canadian project, we would have access to a facility comparable to one that had been proposed in the U.S. at a cost of approximately \$560 million.

I consulted with Henson Moore, then Deputy Secretary of DOE, prior to my trip to Canada in October of 1990, and on the basis of this very strong recommendation from the scientific community, we agreed that we should confirm our earlier, less formal, intention to commit \$75 million to the project construction over a five-year period. I accordingly provided this indication to a number of senior members of the Canadian Cabinet with whom I met at that time.

The Canadians now seek a formal commitment from us. The scientific justification and the cost-effectiveness of the partnership from the U.S. perspective remain as persuasive now as they were two years ago; this has been reiterated by NSAC in its recent reports. I therefore hope that you will respond to the Canadian inquiry by affirming our previous commitments. Such an investment will represent an effective and important part of U.S. participation in international science and will provide access for American scientists to the high intensity frontiers of modern nuclear and particle physics in an unusually cost-effective way.

THE WHITE HOUSE
WASHINGTON

October 5, 1992

MEMORANDUM FOR JAMES A. BAKER III

FROM: D. ALLAN BROMLEY

Allan

SUBJECT: THE SSC AND A CANADIAN PROJECT, KAON

I understand that Kim Campbell, Canadian Minister of Justice and the member of the Canadian Cabinet with special responsibility for the Province of British Columbia, will contact either DOS or you to request that the U.S. join Canada in constructing a major research facility, KAON, in British Columbia. This will be a world class facility for particle and nuclear physics with unique capabilities on the high-intensity frontier.

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- o This facility has been under consideration for several years and an equivalent facility was proposed several years ago for construction at the Los Alamos Scientific Laboratory. The strength of both was the ability to study very rare and correspondingly important fundamental interactions in particle and nuclear physics.
- o DOE and NSF requested input from a panel of experts in 1989. It recommended that we not build the U.S. machine but rather support the Canadian construction with a total of \$75 million over a 5 year construction period. The panel considered this a very cost effective approach since it was known that Canada would pay all operating costs while some 33% of the scientific users would be American. The construction cost for the competing Los Alamos facility was proposed originally as about \$750 million. Clearly only one such facility is required in North America.

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0 After substantial delay the Canadian federal government and the provincial government have recently announced their joint intention to proceed with the KAON project -- with the proviso, similar to that for our SSC project, that one third of the total cost be borne by non-governmental funds.

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RECOMMENDATION:

I would suggest that you respond to Minister Campbell with an indication of U.S. interest and that you request State to initiate discussions with the Canadians to achieve the above mentioned symmetric arrangement.

THE WHITE HOUSE
WASHINGTON

October 1, 1992

MEMORANDUM FOR BRENT SCOWCROFT

FROM: ALLAN BROMLEY *Allan*
SUBJECT: THE CANADIAN KAON PROJECT

Enclosed herewith is the draft of a memo that I am about to send Jim Baker. Before doing so, however, I would welcome any comments or suggestions that you may have.

The potential impact on U.S./Canadian relations I think far outweighs the dollars involved -- quite apart from the fact that this really is a remarkably cost-effective and important project from the scientific point of view.

Enclosure

THE WHITE HOUSE
WASHINGTON

October 1, 1992

DRAFT

MEMORANDUM FOR JAMES A. BAKER III

FROM: D. ALLAN BROMLEY

SUBJECT: THE SSC AND A CANADIAN PROJECT, KAON

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