

Submission Date: Feb 14, 2008

Priority of



Ted Stevens

United States Senator for Alaska

Please Note:

- Fill out one request form for each request
- This form (and any attachments) can be returned via:

Fax - (202) 224-2354

Mail - The Honorable Ted Stevens
United States Senate
522 Hart Senate Office Bldg.
Washington, D.C. 20510

- Requests are due by February 15, 2008.

FISCAL YEAR 2009 PROJECT REQUEST FORM

Project Name: Arctic Transportation and Telecommunication Infrastructure Initiative

Project Location: Based in Alaska, but inclusive of the Russian Federation, Canada, Norway, Finland, Denmark, Iceland and Sweden

Project Description (please attach additional pages as required):

The Institute of the North is requesting federal funding to continue projects previously supported by Congressional funding

A) Arctic transportation and telecommunications initiatives

Through three different appropriations beginning in the summer of 2003, the U.S. Department of Transportation through FAA Grant Agreement DTFAAL-03-45341 has provided the Institute of the North with \$1.9 million to conduct work that will enable the cost-effective development of the transportation and telecommunications infrastructure in the Arctic Circumpolar Region. Specifically the grant directs the Institute to:

- Identify opportunities for international cooperation to advance circumpolar infrastructure—aviation, maritime, land and telecommunications linkages

Related Appropriations Bill:

Amount of federal funding requested for FY09: \$1 million

Total funding to complete this project: \$1 million

Number of years to fund this project: 1 year

Matching funds from the State of Alaska: 0

Matching funds from local and private entities:

University of Alaska - \$100,000, Government of Canada - \$20,000

List legislation that authorizes this project:

[Empty box for listing legislation]

Check all that apply:

- A change in the current law is necessary in order to proceed with the project. (If so, attach language and a list of laws that need to be amended)
- Bill or report language is needed. (If so, attach requested language)

If the project was funded in prior appropriations bills (within the last five years) list each bill and the amount funded:

FY08 under PL108-199 for \$1,000,000

FY08 under PL108-447 for \$450,000

Amount included in the President's FY09 Budget: 0

Amount included in the State of Alaska FY09 Budget: 0

Check this box if state funding was sought but not provided.

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- Gain understanding of the economic impact of transportation and a commitment of the governments of the eight Arctic nations to invest in and develop the transportation and telecommunications infrastructure in the Arctic Circumpolar Region
- Enhance aviation and maritime safety and capacity
- Export new technology which enhances safety and capacity

To continue and expand on this very successful program, the institute proposes the following:

1) Arctic Aviation Project

• **Arctic Aviation Safety Project**

To save private pilots' and passengers' lives, the Institute of the North collaborated in 2004-2006 with U.S. and Canadian officials to provide the first international digital weather camera demonstration project located in a critical mountain pass flyway near the Alaska-British Columbia border. In consultation with the U.S. Federal Aviation Administration, Meteorological Services Canada and the Canada Border Service Agency, the institute purchased the equipment necessary for the two-year demonstration project at the Canadian border crossing in Fraser, British Columbia.

At the end of the demonstration period, the equipment became the property of NavCanada and was incorporated into their network. The institute has been in preliminary discussions with government officials in Khanty-Mansiysk Autonomous Okrug-Ugra in the Russian Federation about a potential aviation camera demonstration project.

The institute will work in collaboration with the Okrug-Ugra and private oil companies to install the first weather camera in the Russian Federation. Khanty-Mansiysk is currently the largest oil production region in the Russian Federation accounting for approximately 56% of the country's oil output.

• **Third Arctic Aviation Experts Conference Project**

A unique gathering of Arctic aviation professionals from six nations met in Winnipeg, Canada at the invitation of the Institute of the North with the common goal of improving Arctic aviation. Three days of individual presentations, panel discussions from representatives from the United States, Canada, the Russian Federation, Greenland, the United Kingdom and Norway, along with spirited exchanges between topic moderators and conference attendees shaped and molded 75 recommendations in six categories focused on how to improve and/or enhance Arctic aviation safety and east/west connectivity.

The conference followed a successful workshop on Arctic aviation the previous year in Khanty-Mansiysk Autonomous Okrug-Ugra. Winnipeg participants encouraged the institute to hold the next meeting in Anchorage as the international participants felt Alaska was a model for civil aviation in the Arctic.

The institute proposes to work with the FAA and others to host such a conference in Alaska in 2009.

• **Arctic Aviation Airport Data Project**

By providing electronic information concerning Arctic airports through an interactive website, the Institute of the North is providing a tool to promote sustainable

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development in the region. Researchers at the institute amassed hundreds of airport statistics by contacting civil aviation authorities throughout the Arctic region. Excel spreadsheets were constructed from the statistics.

Ottawa-based LPS Aviation, Inc. created the computer interface and continues to update the site based on new information gathered by the institute. Building a survey of existing aviation infrastructure helps to determine what additions may be necessary to support broader aviation links and would identify opportunities for technology transfer, planning and international coordination, allowing for prioritization of aviation initiatives in the circumpolar North. This database has been used in the Arctic Marine Shipping Assessment.

The institute will continue to provide this very important informational service.

o Arctic E-Newsletter Project

The Top of the World Telegraph, an e-news gathering source, has been published for the last three years using federal funds provided by Congress. A recent informal survey of the nearly 600 readers indicates the most popular sections in the e-newsletter are MARITIME followed by CLIMATE CHANGE, the week's HIGHLIGHT and AVIATION.

The United States and Canada are home to the majority of our respondents, but other nations where readers reside included Norway, Finland, the United Kingdom and Russia. Survey results were just about evenly split between government and corporate readers, with nonprofit and education represented; other occupations listed included scientist, researcher and consultant.

A majority of respondents read the Telegraph in its entirety and more than half share the Telegraph with others. One recipient indicated sending it on to 83 other readers! In most cases, articles are excerpted and sent, but some indicated they send the entire newsletter to others. Although most seemed to like the current format of the Telegraph, helpful suggestions for change included editorial cartoons, photos, formatting changes, a calendar of events and conferences and additional topics.

Most of the readers indicated the Telegraph keeps them up to date with issues not covered elsewhere. "Keeps me informed about what's going on in the Arctic from all regions. Keep it coming!" was a common theme among respondents. Our personal favorite: "It makes my colleagues think I read a lot of foreign publications."

The institute will continue to publish this very informative e-newsletter.

Cost of Arctic aviation project \$225,000

2) Arctic Shipping project

Background - The U.S. is a lead country (along with Canada and Finland) in the Arctic Council's Arctic Marine Shipping Assessment (AMSA). The Arctic Ministers requested that the Council's Protection of the Arctic Marine Environment working group organize and lead AMSA on behalf of all the Arctic States, Permanent Participants (Arctic indigenous groups) and observers. AMSA is to be a comprehensive and integrated Arctic marine shipping assessment planned for completion by the spring of 2009.

Institute of the North

Arctic Transportation and Telecommunications Initiative

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The AMSA is a natural follow-on to two key Arctic Council reports: the Arctic Climate Impact Assessment (ACIA) and the Arctic Marine Strategic Plan (AMSP). More information can be found on the PAME web site (www.pame.is). AMSA includes a number of key tasks: developing a baseline data base for all ships in the Arctic Ocean during the calendar year 2004; reviewing the geography and history of Arctic marine transportation; reviewing the indigenous uses of the Arctic Ocean; developing scenarios of future Arctic Ocean marine activity for 2020 and 2050; documenting the current and future environmental, social and economic impacts of Arctic marine activities; reviewing current Arctic infrastructure and anticipated needs (for example the need for ice information, environmental monitoring and oil spill response); and providing the PAME representatives and Senior Arctic Officials with a robust list of key findings.

AMSA will contain the following approved chapters:

- 1-Introduction and Geography
- 2-History and Governance of Arctic Marine Use
- 3-Levels of Arctic Marine Traffic - Historic Snapshot/Ship Count
- 4-Past and Recent Indigenous Community Arctic Marine Use
- 5-Scenarios and Futures of Arctic Marine Activity (2020 and 2050)
- 6-Environmental Impacts of Arctic Marine Activity
- 7-Social and Economic Impacts of Arctic Marine Activity
- 8-Current Arctic Infrastructure and Anticipated Needs
- 9-Assessment Findings (Recommendations to the Arctic Ministers)

Appendix: AMSA Arctic Research Agenda

Using previously appropriated federal funds, the institute has been a major funder for Chapter 5, the scenario and future chapter of the assessment. The Institute of the North proposes to:

- o Edit, design, produce and distribute the AMSA Executive Summary before the Arctic Council Ministerial meeting in Norway the spring of 2009 and write, edit and produce an Arctic Marine Transportation Handbook based on the AMSA and the Arctic Transportation Workshop held at Cambridge University by the fall of 2009.
- o Continue intensive membership in the Moscow-based Non Commercial Partnership for the Northern Sea Route Usages organization which is chaired by Arthur Chilingarov, deputy director of the Russian Duma.
- o Create a Senior Fellow for Arctic shipping position at the institute to coordinate the above activities, as well as write articles in prominent research publications.

Cost of the Arctic shipping project \$375,000

3) Arctic Telecommunications Project

In the fall of 2004, the institute held a workshop in Anchorage on Arctic telecommunications and recommended to the Arctic Council a telecommunications goal "to Promote Arctic". The workshop developed a very rudimentary matrix of the

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the institute has done within the Arctic telecommunications field, the U.S. State Department, through the U.S. Senior Arctic Official asked the institute to organize and facilitate an Arctic ICT workshop. The meeting was held in Washington, DC in February 2005. Telecommunication representatives from a mail 03/03/2008 2:32PM

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the institute has done within the Arctic telecommunications field, the U.S. State Department, through the U.S. Senior Arctic Official asked the institute to organize and facilitate an Arctic ICT workshop. The meeting was held in Washington, DC in February 2005. Telecommunication representatives from a majority of the Arctic nations participated, including FCC Commissioner Kathleen Abernathy.

<http://www.sdwg.org/assets/Files/Abernathy%20ICT%20address.pdf>

The group suggested to the Arctic Council that an assessment of ICT be conducted throughout the Arctic. Finland hosted a scoping session in the fall of 2006 with the Senior Arctic Officials approving an Arctic Information and Communication Technologies Assessment (AICTA) in the fall of 2006.

With financial support from the Government of Canada, the U.S. is the lead country for the assessment with major funding coming from the previous federal grant to the institute and additional support from the University of Alaska for Phase One of the assessment. Phase One, an ICT survey of the eight Arctic nations, as well as the writing of Chapter One, is expected to be presented to the Arctic Council in the spring of 2008. The complete assessment is expected to be completed in 2009.

It is anticipated that the Institute of the North will continue to serve as the secretariat in coordination with the Arctic Council's Sustainable Development Working Group Secretariat.

In conjunction with the University of Alaska, the institute will coordinate the organization of the first Arctic Regional Network of the United Nations' Global Alliance for ICT Development.

Cost of the Arctic telecommunication project **\$500,000**

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FISCAL YEAR 2009 PROJECT REQUEST FORM

Project Name: Arctic Fisheries Initiative

Project Location: Alaska, the Russian Federation, Canada, Norway, Finland, Iceland, Sweden and Denmark

Project Description (please attach additional pages as required):

Based on the North Pacific Fishery Management Council developing a Fishery Management Plan (FMP) for the Arctic and anticipating the passage of SJ Resolution 17 that would direct "the US to initiate international discussions and take necessary steps with other Nations to negotiate an agreement for managing migratory and transboundary fish stocks in the Arctic Ocean," the institute proposes to:

- conduct data gathering from all Arctic nations to the fish stocks as covered by this agreement,
- convene an Arctic Fisheries Conference to be held in Anchorage, Alaska in 2009 to share both scientific data and management policies concerning the fish stocks covered by this agreement and to produce a proceedings document; and
- serve as a consultant to the US government on the implementation of SJR 17.

Related Appropriations Bill: _____

Amount of federal funding requested for FY09: \$300,000

Total funding to complete this project: \$200,00

Number of years to fund this project: 2 years

Matching funds from the State of Alaska: 0

Matching funds from local and private entities:

Seeking \$100,000 in support from: commercial fishing organizations; North Pacific Fisheries Management Council; U.S. Arctic Research Commission;

If this project was funded in prior appropriations bills (within the last five years) list each bill and the amount funded:

Amount included in the President's FY09 Budget: 0

Amount included in the State of Alaska FY09 Budget: 0

Check this box if state funding was sought but not provided.

List legislation that authorizes this project:

Check all that apply:

- A change in the current law is necessary in order to proceed with the project. (If so, attach language and a list of laws that need to be amended)
- Bill or report language is needed. (If so, attach requested language)

Matching funds from local or private entities:

\$100,000 requested from: commercial fishing organizations, North Pacific Fisheries Management Council, U.S. Arctic Research Commission, North Pacific Research Board

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FISCAL YEAR 2009 PROJECT REQUEST FORM

Project Name: United Nations Law of the Sea Convention Initiative

Project Location: Anchorage, Alaska

Project Description (please attach additional pages as required):

In 2007 and at the request of the Alaska State Legislature House of Representatives' economic development, international trade and transportation committee, the Institute authored a study "Sea Changes: Perspectives on Alaska's Future Under the Pending United Nations Convention of the Law of the Sea and the Findings of the United States Oceans Commission Report"
 "This report recommends the State of Alaska consider:
 1) creating a detailed knowledge-based assessment of how resource development may be affected if the United States ratifies the Law of the Sea Treaty.
 2) developing a strategic plan on addressing Article 76 (continental shelf claim) of the Law of the Sea Treaty.
 3) encouraging the United States to see the largest EEZ and continental shelf claim possible, not only for regulatory and economic purposes, but as a security buffer.

Related Appropriations Bill: _____

Amount of federal funding requested for FY09: \$200,000

Total funding to complete this project: \$300,000

Number of years to fund this project: two years

Matching funds from the State of Alaska: \$100,000

Matching funds from local and private entities:

List legislation that authorizes this project:

Check all that apply:

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- Bill or report language is needed. (If so, attach requested language)

If this project was funded in prior appropriations bills (within the last five years) list each bill and the amount funded:

Amount included in the President's FY09 Budget: 0

Amount included in the State of Alaska FY09 Budget: 0

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- 4) encouraging negotiations and providing vital state-interest input concerning the Alaska boundary disputes between Canada and the United States as they relate to the Law of the Sea Treaty.
- 5) establishing a maritime legal studies program, to decisively promote its continuing interests in marine legislation, including the impending Law of the Sea Treaty and the recommendations of the United States Oceans Commission Report.
- 6) proactively supporting the North Pacific Fisheries Management Council, as a management program that successfully promotes Alaska's real economic and social welfare.
- 7) holding hearings on a new marine protection laws, including regulations for more stringent oversight of foreign vessels transiting Alaskan waters especially in light of the recent oil spill in the Aleutian Islands.
- 8) commissioning a detailed examination of the potential opportunities and challenges associated with hydrothermal vents and methane hydrates, as these issues will become increasingly important in maritime affairs in the next decade.
- 9) increasing the level of funding for marine and maritime research to match Alaska's place as the primary maritime state in the Union."

As support for Senate ratification grows, the institute is proposing a major program to fulfill the recommendations made in the 2004 study.

Specifically, the institute proposes assisting the United States Government and the State of Alaska in:

- creating a detailed knowledge-based assessment of how resource development may be affected when the United States ratifies the Law of the Sea Treaty,
- developing a strategic plan to address Article 76 (continental shelf claim) of the Law of the Sea Treaty and assisting the Federal Government and the State of Alaska to hold hearings on a new marine protection laws, including regulations for more stringent oversight of foreign vessels transiting Alaskan waters especially in light of the 2004 oil spill in the Aleutian Islands,
- convening an international Law of the Sea conference to be held in Anchorage in 2009

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FISCAL YEAR 2009 PROJECT REQUEST FORM

Project Name: Arctic Energy Summit

Project Location: Alaska, the Russian Federation, Canada, Norway, Finland, Iceland, Sweden and Denmark

Project Description (please attach additional pages as required):

The Arctic Energy Summit is sanctioned by the Arctic Council, through the U.S. Department of State, and is an official International Polar Year project. The summit is comprised of an educational outreach component; a technical conference component and an action team component. The summit began in 2007 and will conclude in the spring of 2009. In October 2007, the Institute of the North organized and hosted the Arctic Energy Summit Technology Conference. We deeply appreciate Senator Stevens' participation in addressing more than 300 international delegates from 14 different countries who attended the event. The next phase of the summit is the creation of an international energy action team. The team will address three major Arctic energy issues in the areas of extractive, renewable and rural village energy use:

- Rural Energy: Fully a third of energy usage in a rural community is for transportation fuels (ATVs, snow machines, boats). High costs of these fuels are significantly impacting rural subsistence lifestyles and the viability of these communities. What fuel technologies are

Related Appropriations Bill: _____

Amount of federal funding requested for FY09: \$500,000

Total funding to complete this project: \$1,038,000

Number of years to fund this project: 1 year (remaining)

Matching funds from the State of Alaska: \$100,000

Matching funds from local and private entities:
\$438,000 for the following: BP - \$60,000; Canada - \$50,000; U.S. Department of Energy - \$25,000; Denali Commission - \$15,000; U.S. Arctic Research

If this project was funded in prior appropriations bills (within the last five years) list each bill and the amount funded:

Amount included in the President's FY09 Budget: 0

Amount included in the State of Alaska FY09 Budget: 0

Check this box if state funding was sought but not provided.

List legislation that authorizes this project:

Check all that apply:

- A change in the current law is necessary in order to proceed with the project. (If so, attach language and a list of laws that need to be amended)
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- available that could be used to mitigate this problem?
- **Renewable Energy:** There are large tidal resources in the Arctic, and technology is becoming more available to take advantage of this resource in the lower latitudes. Are there barriers (such as tidal ice) that would prevent this renewable resource from being used? What technology or approach would allow this resource to become a source of much needed energy in remote regions?
- **Extractive Energy:** Large amounts of high quality coal exist in the Arctic (25% of known U.S. reserves), yet it is currently undeveloped. What technology would allow this resource to be utilized?

The findings of the action team can assist the U.S. by contributing to the President's Energy Plan. As part of the Arctic-wide impact, the findings will be released at a January 2009 conference that will be held in Anchorage. The findings, along with the proceedings of the technology conference, will be published and reviewed by the Arctic Council's Sustainable Development Working Group for consideration to be included in the Arctic Council Ministerial meeting set for the spring of 2009 in Norway.

Matching funds from local or private entities:

\$438,000 for the following: BP - \$60,000; Canada - \$50,000; U.S. Department of Energy - \$25,000; Denali Commission - \$15,000; U.S. Arctic Research Commission - \$5,000; BG - \$15,000; Shell Oil - \$15,000; Other sponsorships - \$15,000; 2007 Conference participant fees - \$157,000; projected 2009 conference participation fees - \$31,000