

HB

548

SFIN

FILE

FN ✓

SENATE FINANCE COMMITTEE REPORT

DATE: 5/5/94

FURTHER:

DATE TURNED INTO OFFICE: 5-7-94

The Finance Committee considered HOUSE BILL NO. 548

"An Act relating to the construction of the Alaska Orbital Launch Complex by the Alaska Aerospace Development Corporation."

and recommends:

- replace with _____ CS _____ (FINANCE)
- or adopt previous _____ CS _____ (_____)
- attaches amendment(s)

- same title
- new title
- technical title change (HB only)

adopts _____ Letter of Intent

further referral to the _____

do pass

do not pass

no recommendation

individual recommendations

NEW FISCAL NOTES

Department	Date	Zero	Fiscal

PREVIOUS FISCAL NOTES

Department	Date	Zero	Fiscal
DC&ED	5/2/94	0	

Appropriation No Fiscal Note

DO PASS:

Tom Kelly

1. *Do pass*

Co-Chair: Signature/Recommendation

OTHER RECOMMENDATIONS:

Boyd Sharp No Rec

2. *True finance. 10/2/94*

Co-Chair: Signature/Recommendation

FISCAL NOTE

STATE OF ALASKA
1994 LEGISLATIVE SESSION

No. 1
Bill Version: HB 548
(H) Publish Date: 5/3/94

Revision Date: 5/2/94
Title: Relating to an Alaska Orbital Launch Complex
Sponsor: House Labor and Commerce
Requestor: House Labor and Commerce

Department Affected: Commerce and Economic Development
BRU: _____
Component: Alaska Aerospace Development Corporation
COMPONENT SERIAL NO. _____

Expenditures/Revenues:

OPERATING EXPENDITURES	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
PERSONAL SERVICES	0	0	0	0	0	0
TRAVEL	0	0	0	0	0	0
CONTRACTUAL	0	0	0	0	0	0
SUPPLIES	0	0	0	0	0	0
EQUIPMENT	0	0	0	0	0	0
LAND & STRUCTURES	0	0	0	0	0	0
GRANTS, CLAIMS	0	0	0	0	0	0
MISCELLANEOUS	0	0	0	0	0	0
TOTAL OPERATING	0	0	0	0	0	0

CAPITAL EXPENDITURES	0	0	0	0	0	0
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CHANGE IN REVENUES ()	0	0	0	0	0	0
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FUND SOURCE

1002 Federal Receipts	0	0	0	0	0	0
1003 GF Match	0	0	0	0	0	0
1004 GF	0	0	0	0	0	0
1005 GF/Program Receipts	0	0	0	0	0	0
1006 GF/MHTIA	0	0	0	0	0	0
Other	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Estimate of current year (FY 94) cost: \$ 0

POSITIONS

FULL-TIME	0	0	0	0	0	0
PART-TIME	0	0	0	0	0	0
TEMPORARY	0	0	0	0	0	0

ANALYSIS: (Attach a separate page if necessary.)

Prepared by: W. G. Miller
Division: _____

Phone: 465-2500
Date: _____

Approved by Commissioner: Paul Fuhs
Agency: Commerce and Economic Development

Date: 5-2-94

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do pass

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individual recommendations

NEW FISCAL NOTES

Department	Date	Zero	Fiscal

PREVIOUS FISCAL NOTES

Department	Date	Zero	Fiscal
DCLED	5/2/94	0	

Appropriation No Fiscal Note

DO PASS:

Tom Kelly

1. *Do pass*
 Co-Chair: Signature/Recommendation

OTHER RECOMMENDATIONS:

NO Rec

NO Rec

2. *True Notice - 10/20/94*
 Co-Chair: Signature/Recommendation

**THE FOLLOWING PAGES MAY
NOT FILM LEGIBLY BECAUSE OF
THE POOR QUALITY OF THE ORIGINAL**

NB 548

Launch from Kodiak Island Taurus Stages

Stage 1 (314 nm)

Fairing (1133 nm)

Stage 2 (1384 nm)

220

210

200

190

180

170

160

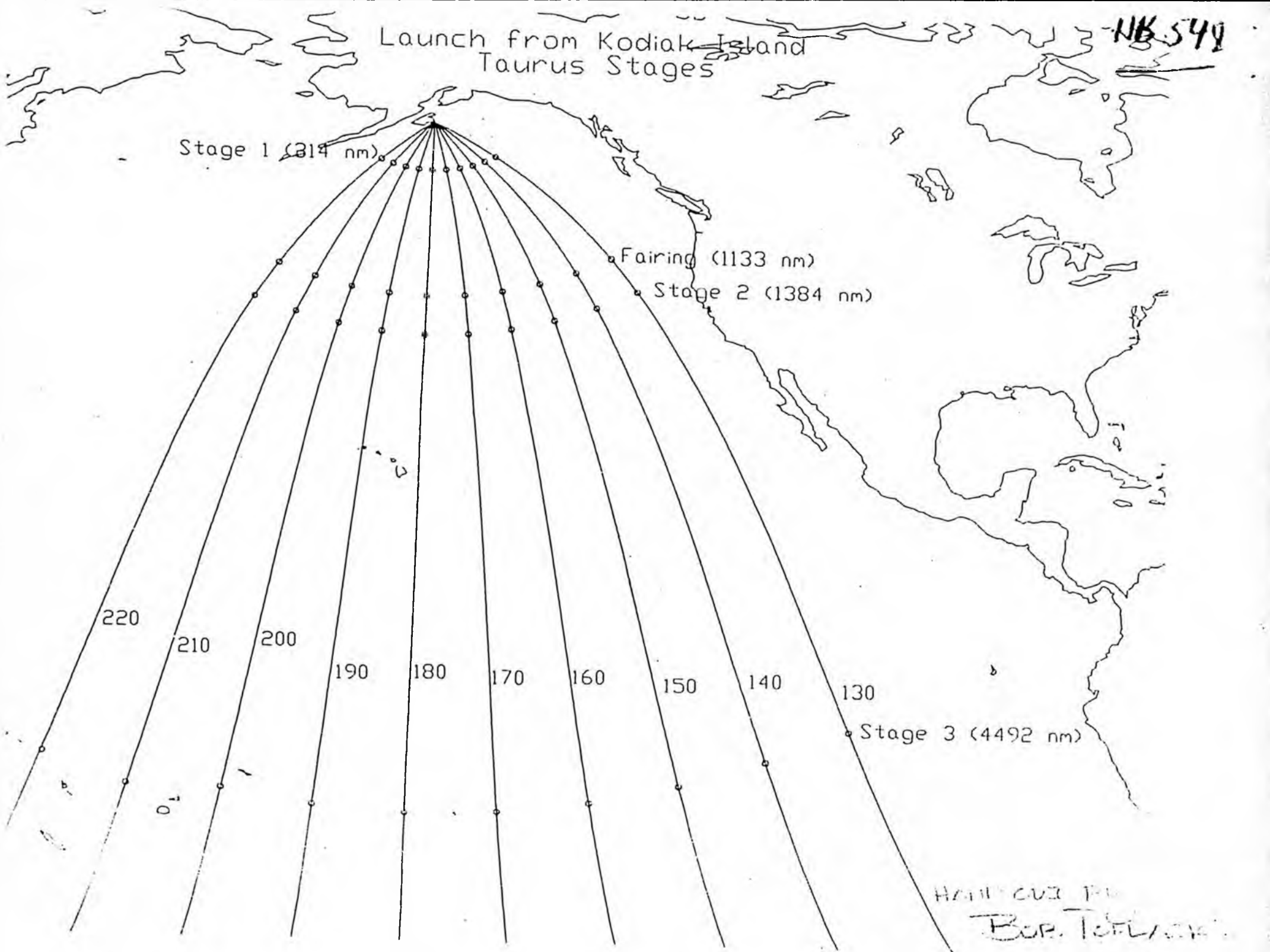
150

140

130

Stage 3 (4492 nm)

Handed out to
Bob Tolson



SPACE LAUNCH COMPLEX 1

Castor 120 and Smaller Based Vehicles

LAUNCH OPERATIONS
& CONTROL CENTER

FUTURE ROCKET
MOTOR STORAGE

INTEGRATION CHECKOUT &
ENCAPSULATION FACILITY

SPACECRAFT
ASSEMBLIES
TRANSFER FACILITY

LAUNCH
PAD & SERVICE
STRUCTURE

ALASKA AEROSPACE DEVELOPMENT CORPORATION

Handwritten notes and signatures in the bottom right corner.



The Alaska Aerospace Development Corporation (AADC) is focused on two major projects: the location of satellite ground stations in the Fairbanks area and the construction of the Alaska Orbital Launch Complex (AOLC) on Kodiak Island. Alaska is a strategic location for aerospace operations and is an intersection to global markets. The aerospace industry being developed by AADC appears to be the answer to commercial exploitation of these advantages.

The aerospace industry and technology that will be brought to Alaska should create a new source of skilled, high-paying jobs, unique educational opportunities for our children, and encourage spin-off industries of direct benefit to a broad range of Alaskans.

All of Alaska will benefit from AADC's activities. The construction of the AOLC and the development of a global ground station center in Fairbanks comes at a crucial time in the emergence of a commercial space industry in the United States. AADC's efforts will enable Alaska to diversify its economy by exploiting one of Alaska's under-used natural resources, its aerospace potential.

ALASKA ORBITAL LAUNCH COMPLEX

The market for polar orbit satellites is increasing rapidly, with a number of large constellations currently in development. These range from Iridium's 66 satellite network to Teledesic's 840 satellite network. We expect the market for polar orbit satellites to continue to increase, jeopardizing the ability of American companies to satisfy market demand. Currently Vandenberg AFB is the only launch site in the United States available for polar orbit launches, and even if it were expanded to its maximum capability, Vandenberg AFB cannot support all of the launches required to maintain the planned satellite constellations. Several new launch vehicles are being developed for this market, and the federal government is expected to make excess Minuteman vehicles available for university and Department of Defense launches.

Kodiak Island is an optimal location for the first commercial rocket launch facility in the United States. The location at Narrow Cape AADC boast unobstructed southern launch paths, safe distances from other development and activities, a minimum of environmental impact, and supportive communities and governments. While the vast number of commercial polar orbit launches are several years away, the commercial sector must be able to plan for those launches now. If launch capability will not be available in the United States, then companies may be forced to look elsewhere, or to scale back their plans. Alaska's plans for the AOLC address the needs of the commercial sector.

**THE
FOLLOWING
DOCUMENTS
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COPIES**

FAIRBANKS GROUND STATIONS

The Fairbanks area is an ideal location for polar orbiting satellite ground stations operations. Fairbanks strategic latitude is complimented with state-of-the-art telecommunications systems, a global reach air transportation system, world-class university faculty and facilities, available skilled employees and contractors, and a warm and receptive community.

Polar orbiting, or near Polar orbiting satellites are best serviced from ground stations located near the Polar regions. The optimal location would also allow an extended North - South horizon to horizon view of the satellite. In both cases, optimal flyover rates and field of view, Fairbanks is arguably one of the best locations on the planet.

Beyond geography, the satellite operator must also consider available infrastructure, local cost of operations, market access (transportation) and community support (tangible and intangible). These things are either already available in Fairbanks or easily developed as part of a strategy to support ground station development.

COST ESTIMATE SUMMARY

CASTOR 120 BASED VEHICLES

a) Launch Pad and Service Structures (SLC 1)	\$2,981,100
b) Integration, Checkout and Encapsulation Facility (ICF)	\$1,718,600
c) Spacecraft Assemblies Transfer Building (SCAT)	\$ 583,250
d) Launch Operations and Control Center (LOCC)	\$ 324,000
e) Supporting Roads	\$ 500,000
f) Fiber Optic System - 30 Fiber	\$ 107,500
g) Power Generation Facility (750 KW, complete)	\$ 175,000
h) Security	\$ 20,000
i) Area Lighting, Utilities	\$ 20,000
j) Engineering, Testing, Administration	<u>\$ 213,298</u>
Total	\$7,420,213

k) *Roller Motor Storage BLOC.* \$ 750,000

March 3, 1994

*The Honorable Ted Stevens
United States Senate
522 Hart Office Building
Washington, DC 20510-0201*

Dear Ted,

It is my understanding that the Alaska Aerospace Development Corporation (AADC) recently selected Kodiak Island as the site for the development of an orbital launch facility. I am writing to express my support for that decision.

The development of an orbital launch facility within the State of Alaska is a positive step towards diversification of the state's economy. It is anticipated that the launch facility will result in increased economic development within the state, including the creation of highly-skilled and high-paying jobs. It is also anticipated that the launch facility and the personnel who work there will provide the citizens of Kodiak Island with valuable educational opportunities.

For the reasons stated above, I urge your continued support of the AADC and its development of an orbital launch facility on Kodiak Island. Thank you for your consideration of this important issue.

With best regards,

Sincerely,

S/S WALTER J. HICKEL

*Walter J. Hickel
Governor*

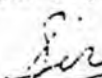
*cc: Mr. Pat Ladner
WJH/BPM/ec*

**0101
Support for AK Aerospace Development
Corp. Kodiak site**

ALASKA
AEROSPACE
DEVELOPMENT
CORPORATION

March 10, 1994

The Honorable Walter J. Hickel
Governor, State of Alaska
P.O. Box 110001
Juneau, Alaska 99811-0001


Dear Governor Hickel:


I would like to take the opportunity to inform you of the invaluable contribution Commissioner Paul Fuhs made at the recent meeting between the Alaska Aerospace Development Corporation (AADC) and Lockheed Missiles and Space Company held in Sunnyvale, California on March 8, 1994.

The recent decision of the AADC Board of Directors to designate Kodiak as the location for the Alaska Orbital Launch Complex has generated excitement within the aerospace industry. As you know, Lockheed invited AADC to Sunnyvale to present information about the development of Alaska's launch complex. In addition to design and safety information presented by AADC, Commissioner Fuhs was able to demonstrate Alaska's willingness and ability to support the launch complex. The Commissioner's knowledge and background allowed him to communicate numerous ways in which Alaska stands ready and able to support this venture including, pricing strategies, transportation, and funding for training.

Lockheed executives were so impressed by Commissioner Fuhs and Alaska's ~~commitment to the~~ development of this industry that they immediately decided to undertake a ~~trade study to consider~~ use of the Alaska Orbital Launch Complex for Lockheed's polar launches. ~~AADC and the State~~ of Alaska owe a great deal of gratitude to Commissioner Fuhs, as his efforts ~~made~~ the difference in Lockheed taking the next step toward making a commitment to the Alaska Orbital Launch Complex.

Please do not hesitate to contact me if you have any questions or if I can provide you with additional information.

Sincerely,


Pat Ladner
Executive Director

cc: The Honorable Senator Ted Stevens
The Honorable Senator Frank Murkowski
The Honorable Don Young
Commissioner Paul Fuhs
AADC Board of Directors