



ALASKA WELDING CENTER

P.O. Box 74598
3021 Davis Road
Fairbanks, Alaska 99701
(907) 456-5962

November 18, 1983

'83 NOV 28 P3:03



United States Nuclear Regulatory Commission
Wiltse Building SS396
7915 Eastern Avenue
Silver Springs, MD 20910

Attention: Mr. Joe Wang

Subject: Name Change Request and Revision to Safety Program
License No. 50-19202-01, Amendment No. 8

Dear Mr. Wang,

Per my conversation with Ms. Glenda Jackson, this letter documents Alaska Welding Center's intent to change our company from a partnership to an Alaskan corporation. Correspondingly our name will change from Alaska Welding Center to Alaska Welding Center, Inc. My title will change from General Manager to President.

Please be advised this is a name change only. There are no changes in addresses, ownership, staff, authorized users or facilities.

We also request you amend our license to use sealed sources in a permanent installation located at 3021 Davis Road, Fairbanks, Alaska 99701. Our original request and safety program changes (Revision No. 6) were forwarded on December 30, 1982. (Date of transmittal letter).

Attached is the information required by Regulatory Guide 10.6.

Please find enclosed our amendment fee check (should an additional fee be required) for the amount of \$110.00.

Should additional information or clarification be needed, please contact the writer.

Sincerely,

Sandy M. Watson

Sandy M. Watson
President and
Radiation Safety Officer

SNW/bw

Encl: Check #C3585

cc: RSO file
L. Russell
Region V

RECEIVED BY LFMB	
Date	11/30/83
Log	Nov 12 Amend.
By	Brown
Orig. To	
Action Compl	12/1/83

Applicant	3585
Check No.	3585
Amount/Fee Category	\$110-30
Type of Fee	Amendment
Date Check Rec'd	11/30/83
Received By	Brown

COPY SENT REGION V

8507170140 850524
REG5 LIC30
50-19202-01 PDR

16340



BUILDING NO. 1

- Office
- Welding Procedure Development
- Metallurgical Laboratory
- NDE Exposure Rooms

BUILDING NO. 2

- Welder Performance Qualification

BUILDING NO. 3

- Fabrication
- Maintenance and Repair

Three Buildings 60' x 100'
on 7 acres of land

(Prior to fencing of property)

16340



ALASKA WELDING CENTER, INC.
PERMANENT RADIOGRAPHIC INSTALLATION
3021 DAVIS ROAD
FAIRBANKS, ALASKA 99701

Prepared in Accordance
with
Regulating Guide 10.6, Revision 1 (Proposed)

Item 6(a)

- a. Attached are drawings, sketches and photographs of the installation and its surroundings, including (1) dimensions of each enclosed area; (2) thickness, density, and type of shielding material on all sides, above and below; (3) identification of entranceways; and (4) a description of the nature of and distances to all areas adjacent to, above and below each exposure area. (Three sketches enclosed).
- b. The Permanent Installation has a single door (See photo #1) under lock and key which is actuated by an external and internal non-leak air-controlled system, utilizing the following safeguards:
 1. LOCK AND KEY: The door to the permanent installation (See photo #3) is locked at all times, except when in use. Each of the Source storage (See photo #9) containers (inside and outside containers) utilize different locks and keys. The keys to the installation and storage containers are controlled by the Radiation Safety Secretary.
 2. RADIATION SIGNS: "Caution Radiation Area" and "Radioactive material" signs are posted on all sides of the exterior of the installation (See photo #2 & 3). "High Radiation Area" signs are posted inside the installation. Radioactive Material signs are posted on two sides of the Source shielded storage containers (See photo #9).
 3. WARNING LIGHTS AND ALARMS: A MARS Model Mark 1, S/N-0025 warning light and audible alarm system (See photo #5) is located at eye level adjacent to the exterior door of the installation. An Industrial Nuclear Company warning light and audible alarm (See photo #8) is located inside the installation. The exterior warning light and alarm (preset at 1 MR/HR) is actuated when the door is open while a Source is exposed. The interior warning light and alarm (preset at



1 MR/HR) is actuated at all times a Source is exposed. There is also a continuously flashing red light (See photo #5) located at the upper right exterior portion of the installation adjacent to the door. This light is actuated when the lights inside the installation are turned on and is left on until any use of the installation is completed, the door is locked, and the lights turned out. The alarm systems shall be tested at intervals not to exceed 3 months.

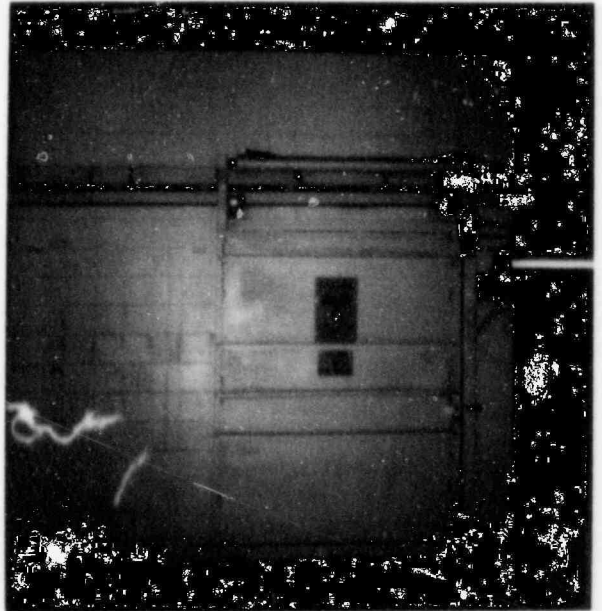
4. INTERLOCKING SYSTEMS: An interlock system, Model No. B54B2 (See photo #5) is utilized to actuate/deactuate the MARS Mark 1 System to sound a high audible alarm and set off a rotating beacon red light when the door is opened and a Source is exposed (a similar interlock system is utilized to deactuate a 300 KV X-Ray machine). Air control switches are located inside and outside the installation (See photos #3 & #7).
5. ADDITIONAL SAFETY ITEMS: Located outside the installations are survey meters, a Source retrieval tool, a lead apron and lead for shielding.

- c. CALCULATIONS, BASIS FOR: Alaska Welding Center, Inc. has no need, and foresees no need to use uncollimated Sources in the permanent radiographic installation. As only five (5) percent or less of our radiographic techniques require radioactive Source(s) and are confined to pipe diameters (welders coupons) of twelve inches or less. We have constructed a radiographic exposure container/fixture to completely enclose the radiographic specimen and the Source (Source centered inside specimen and container (See photo #12). The container/fixture (See photos #10, #11 & #12) is constructed of 1/2" steel and two (2) inches of lead on all sides. Utilizing a 100 curies of Iridium 192 and this container/fixture there is no detectable radiation outside the permanent installation at any surface.

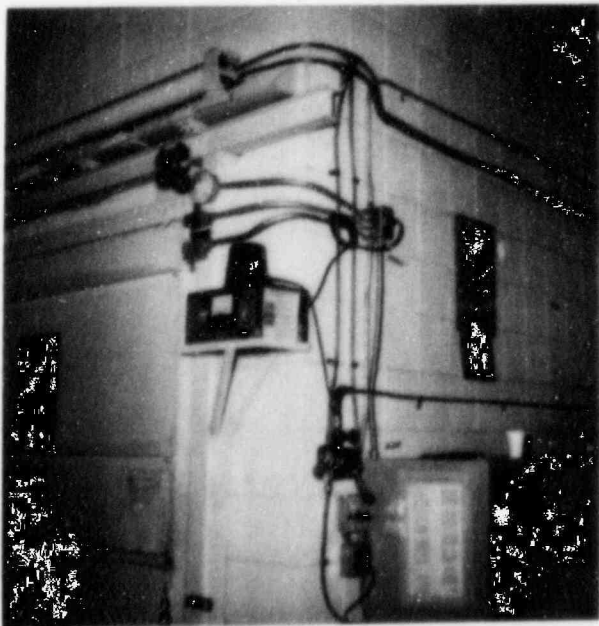
Alaska Welding Center, Inc.
Permanent Radiographic Installation
3021 Davis Road
Fairbanks, Alaska 99701



No. 1 Permanent Radiographic
Installation



No. 2 Front View - door
Air Chamber

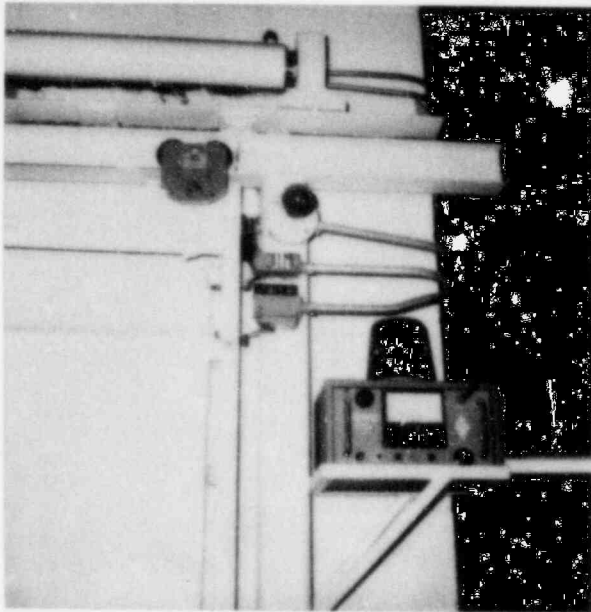


No. 3 Warning Lights and Alarm
Air Actuator Control



No. 4 Top View Sand

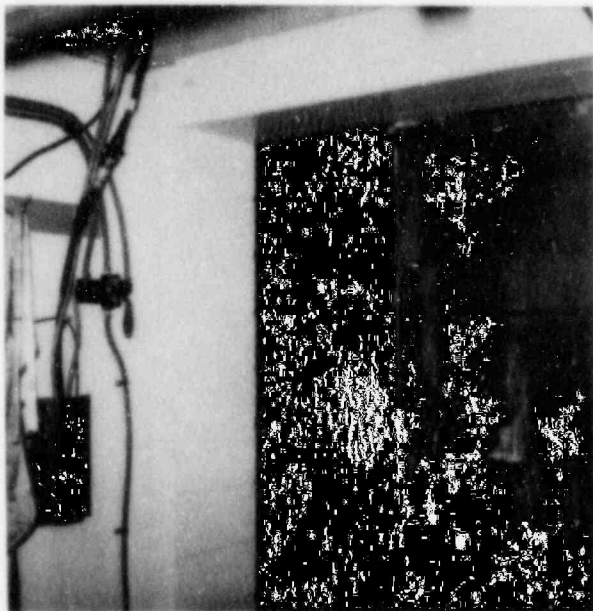
Alaska Welding Center, Inc.
 Permanent Radiographic Installation
 3021 Davis Road
 Fairbanks, Alaska 99701



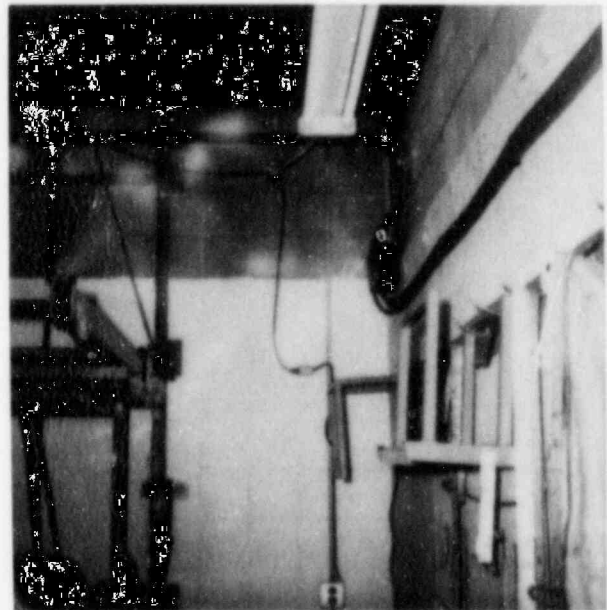
No. 5 Mars Warning Light & Alarm
 Flashing Red Light
 Interlocking System



No. 6 Looking Inside 300 KV X-Ray
 Machine, IR-192 Exposure
 Container



No. 7 Inside Installation
 Lead Lined Door
 Air Actuator Control

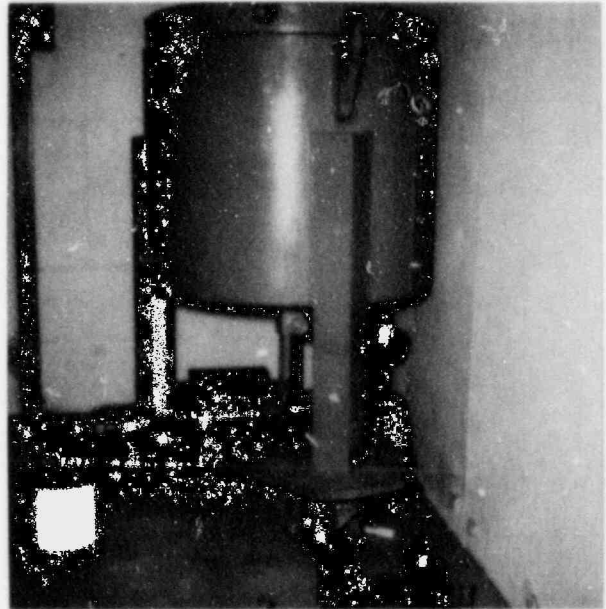


No. 8 Inside Installation
 INC Warning Lights & Alarm

Alaska Welding Center, Inc.
 Permanent Radiographic Installation
 3021 Davis Road
 Fairbanks, Alaska 99701



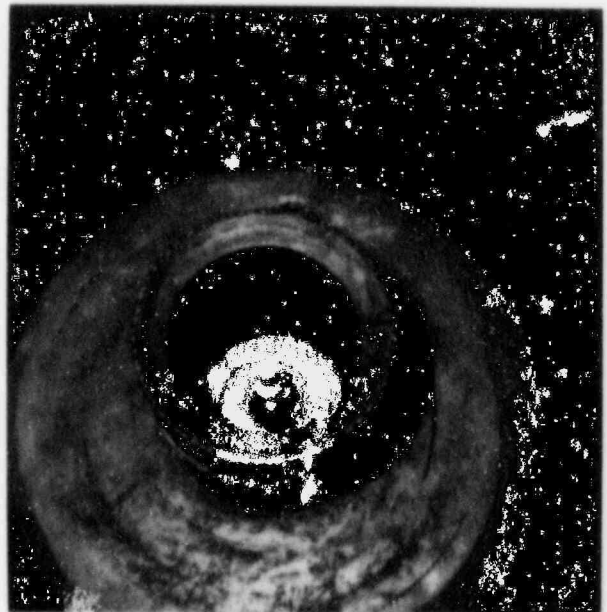
No. 9 Inside Installation
 Source Shielded Storage
 Container -inner & outer



10. Inside Installation
 IR-192 Exposure Container/
 Fixture (Closed top)



No. 11 Open Container/Fixture, 2"
 Lead walls, bottom and sides. Source
 positioner lower right.



No. 12 Inside Container/Fixture
 Source Positioner Centered
 Inside Test Coupon



ALASKA WELDING CENTER

RADIATION SAFETY PROGRAM PART I DESCRIPTION OF FACILITIES, LOCATION AND USE AREAS

Section 1.0

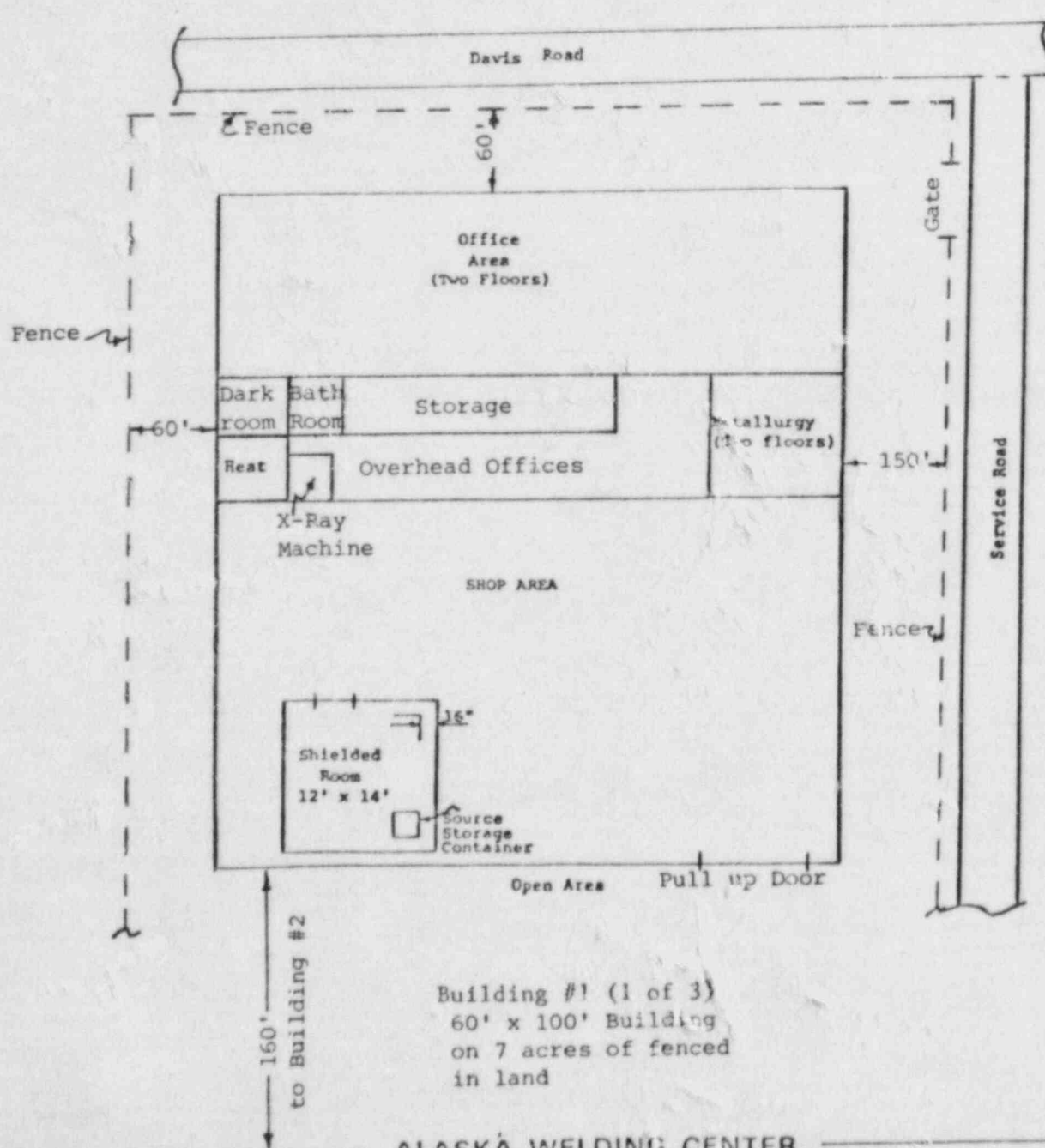
Page 3 of 3

Rev. 6

Date 6-8-82

Appr. *SAW*

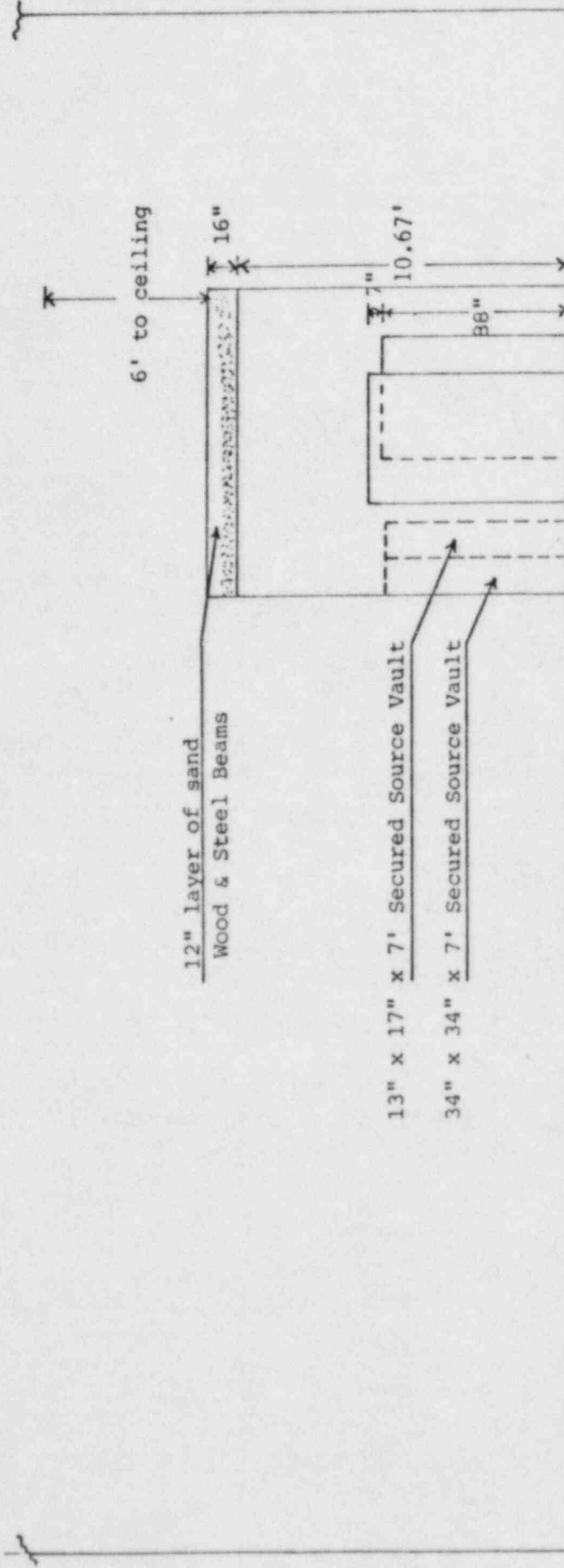
Alaska Welding Center, Inc.
3021 Davis Rd.
Fairbanks, Alaska 99701



Building #1 (1 of 3)
60' x 100' Building
on 7 acres of fenced
in land

ALASKA WELDING CENTER

Alaska Welding Center, Inc.
Permanent Radiographic Installation
3021 Davis Road
Fairbanks, Alaska 99701



No Overhead Access

Alaska Welding Center, Inc.
 Permanent Radiographic Installation
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 Fairbanks, Alaska 99701

