

Finding Aid
The Bill Ray White Alice Collection
B94.9.1-1386

Bill Ray worked as a contract officer on the White Alice Project. "White Alice" was a communication system developed by the U.S. Air Force to provide an integrated system for Federal, military and civil agencies as well as the public. "White Alice" began service in 1956 providing high quality and accurate service to the users. "White Alice" was the popular name for "Forward Propagation by Tropospheric Scatter."

Bill Ray's wife, Frances, a long-time volunteer in the Museum Archives, donated this collection to the Archives after his death in 1994. Our volunteer, Opal Myers, organized the collection during the Fall of 1994.

The boxes are arranged in this manner: Box 1 includes photos of equipment; Boxes 2 - 5 are arranged alphabetically by site location; Box 6 includes Project 717 Construction Progress and activity reports; Box 7 holds miscellaneous geographic sites.

BOX 1 Bell Telephone Labs

Folder 1-2, photos .1 - .196

A series of photographs covering erection of the first prototype 60' parabolic TROPO antenna at Blaw-Knox Plant in Pittsburgh, Pennsylvania.

Folder 3, photos .197 - .219 (Blaw-Knox)

Foundations - Shoes
Storage - Prefabbing
Raising Members

Folder 4, photos .220 - .243 (Blaw-Knox)

Fabrication
Structure details
Feedhorn and Waveguide
Sheathing

Folder 5, photos .244 - .267 (Misc. Equipment)

Antennas - typical
Artists' conceptions
Brooklyn Prototype
De-icing Equipment
Feedhorn Tower

Folder 6, photos .268 - .296 (Engine Alternators)

Buda
Chicago
Installed

Folder 7, photos .297 - .336 (Electronic Equipment
Andrew Corporation
Cabinet
Control
Power
Receiver
Transmitter
General
Special (REA Pa Amp.)

Folder 8, photos .337 - .374
A series of photos of Auburn Warehouse showing loading,
receiving and packing.

BOX 2 Anchorage - Boswell Bay

Folder 8a, photos .375 - .396
Anchorage ACS Building additions, towers, storage

Folder 9, photos .397 - 414
Aniak, aerial views of site location--see also
Dorm and equipment building, antennas, Alternator
and POL tanks

Box

Folder 10, photos .415 - .476
Anvil Mt. site location (Nome)
Barge with equipment sinking and salvage operation
Nome CAA
Supplies, loading, unloading storage

Folder 11, photos .477 - .585
Bear Creek site location (Tanana)
Dormitory, equipment and storage buildings
Antennas
Water line and pump house
Septic tank
POL tanks
Tanana CAA

Folder 12, photos .586 - .605
Bethel site location--see also Box 6
Bethel CAA

Folder 13, photos .606 - .658
Big Mountain site location (Illiamna)
Building construction
Illiamna CAA
Illiamna Test Tower
Antennas

Folder 14, photos .659 - .695
Boswell Bay site location (Hinchinbrook Island)

Proposed POL location and well location
Road construction
M.K. Camp
Barging equipment from Cordova
Hinchinbrook CAA

BOX 3 Clam Gulch - Indian Mt.

Folder 15, photos .696 - .701
Clam Gulch
Kenai RIS

Folder 16, photos .702 - .709
Diamond Ridge Site (Homer) -- see also Box 6
Homer CAA
Test Towers

Folder 17, photos .710 - .712
Anchorage RIN - Elmendorf
Antenna Tower and Wave guide installation

Folder 18, photos .712 - .714
Fairbanks ACS TD-2 Site
Fairbanks CAA

Folder 19, photos .715 - .722
Ft. Yukon Site location
Antenna and feed horns

Folder 20, photos .723 - .901
Granite Mt. site (Candle - Haycock)
M-K Camp
Equipment building construction
Airstrip for bush planes
POL tanks
Well drilling - spring house
Test pits
Antennas and feed horns
Alaska Airline unloading materials at Moon Creek

Folder 21, photos .902 - .909
Indian Mt. Site
Antenna to Bear Creek
Transmission line

BOX 4 Kalakaket - Newenham

Folder 22, photos .910 - .937
Kalakaket site (Galena)--see also Box 6
Constructing dormitory building
Laboratory
Antennas and waveguides
H - 21 at Airstrip
Galena CAA

Folder 23, photos .938 - .947
King Salmon site (Naknek)-- see also Box 6
Naknek CAA
Tower mounted on trailer
Equipment hut

Folder 24, photos .948 - .973
Kotzebue Site -- see also Box 6
Antenna Truss supports
Waveguide supports

Folder 25, photos .974 - .975
Lisburne Site see also Box 6
Test towers

Folder 26, photos .976 - .979
Middleton Island site
Middleton Island CAA

Folder 27, photos .980 - .988
Naptowne (Kenai R1N)
Tower footings and waveguide support

Folder 28, photos .989 - .1045
Neklasson Lake site (Wasilla)
Feed horns
Antennae and TD2 towers
Waveguide support
13 representatives from electric companies
Equipment and laboratory

identifie

Folder 29, photos .1046 - .1083
Newenham site -- see also Box 6
Equipment and dormitory buildings
Antennas
Well drilling operation
Gravel source
Unloading equipment from barges
Shop and re-building room

BOX 5 North River (Unalakleet) - Wales

Folder 30, photos .1084 - .1100
North River site (Unalakleet) see also Box 6
Unalakleet CAA

Folder 31, photos .1101 - .1117
Northeast Cape site
Equipment hut, damaged and re-built
Antennas
POL storage tanks
Detail of material in Barrow area

Folder 32, photos .1118 - .1143

Pedro Dome site
Equipment building and dormitory construction
Erecting TD-2 Antenna horn
Foundation and template--antenna #4
Excavation and forms--antenna #4
Trench in bed rock
TD-2 piers
204 ft. Test tower construction
Site shown from Steese Highway

Folder 33, (does not exist)

Folder 34, photos .1144 - .1172

Pillar Mt. (Kodiak)--see also Box 6
Waveguide
Feedhorn
Equipment building construction
Antenna
Cat pulling sled load of equipment up mountain
C-46 unloading complete set of transmitter equipment

Folder 35, photos .1173 - .1174

Rabbit Creek site (Potter #2)
First completed TD-2 Tower, Section 19 (Anchorage)

Folder 36, photos .1175 - .1251

Romanzof site
Equipment and Dorm building construction - typical bank se
French drain from dorm
Backfilling sewer lines
Equipment building with transformer room
Antennas and concrete piers
Waveguide supports
Water storage room
POL Storage Tanks and dike wall
Heated sewer line
Equipment repair shop
M-K Storage warehouse
Buildings and equipment completely covered by snow

Folder 37, photos .1252 - .1267

Sparrevohn site
Test tower and road
A/G Transmitter

Folder 38, photos .1267 - .1269

Sitkinak Site Area - Section 19

Folder 39, photos .1270 - .1286

Tatalina site (McGrath) see also Box 6
H-21 wreck and damaged dish
McGrath CAA

Roundabout Mts. - Takotna Mt.
Ice on A.F. Tramway
Collapsed Test Tower

Folder 40, photos .1287 - .1297

Tin City site (Wales)
Equipment building
Antenna Construction
Wales CAA

**BOX 6 Project 717 - White Alice - Construction Progress,
October & November 1956**

Folder 41, photos .1298 - .1308

Aniak site --see also Box 2
60' Dishes
Equipment building
Water pump house
Fuel storage tanks
Dormitory
Aerial view

Folder 42, photos .1309

Tatalina site - aerial view - see also Box 5

Folder 43, photos .1310 - .1327

Galena site -- see also Box 4
Supports for Dish
Heated Dish
60' Dishes under construction
Equipment building
Heating ground to pour concrete
Dormitory
Aerial view
Concrete Footings
Motor generator unit in power room
Caterpillar with ripper breaking frozen ground

Folder 44, photos .1328 - .1332

Unalakleet site -- see also Box 5
Clearing site area
Construction camp
Bridge to site

Folder 45 photos .1333 - .1338

Kotzebue site -- see also Box 4
60' dishes
Illustration of piling for buildings and antenna support
Support for 30' dish with fuel tank and heaters
Waveguide run
Equipment building

Folder 46, photos .1339 - .1346

Lisburne site -- see also Box 4

Constructing dish supports
Pouring concrete floor
Heaters used to keep concrete warm
Ditch digging in frozen ground for pipe line
Equipment breaking frozen ground
Heat ducts and conduit in equipment
Mounting fee horn supports

- Folder 47, photos .1347a - .1347b**
King Salmon site (Naknek) -- see also Box 4
- Folder 48, photos .1348a - .1349b**
Clam Gulch site
Showing location beside Sterling highway
- Folder 49, photos .1350a - 1352b**
Diamond Ridge site (Homer) -- see also Box 3
- Folder 50, photos .1353a - .1355b**
Pillar Mt. site (Kodiak) --see also Box 5
Cable line and approach road
- Folder 51, photos .1356a & b**
Bethel site -- see also Box 2
A.C. & W. site
- Folder 52, photos .1357a - 1358b**
Newenham site -- see also Box 4
- Folder 53, photos .1359a & b**
Soldotna Site
Location beside road to Kenai
- Folder 54, photos .1360a - 1365**
Starisky Creek site
- Folder 55, 56, 57, 58**
Weekly activity reports 7/6/57 - 3/1/5

BOX 7 Miscellaneous Geographic Sites

- Folder 59, photos .1366 - .1381**
Air Force Installation
Anchorage - Fire Island
Kalakaket Creek (Installation at Campion
Lisburne
Romanzof
Tatlina
- Folder 60, photos .1382 - .1383**
Atlasta House
AC & W Radome Location
Proposed AC & W water supply

- Folder 61, photo .1384**
Delta Junction site
- Folder 62, photo .1385**
Glacier Point TD-2 site
ACS Installation
ACS Repeater building
- Folder 63, photo .1386**
Nelchina site
Location near Glenn Highway
- Folder 64, photos .1388-1420 (added later)**
Unidentified 1957 Western Electric photographs and negatives. A.T. Rife, photographer
Barge "Tanana"
Installations, personnel and equipment at:
Big Mountain
Cape Lisburne
Fairbanks (ACS building)
Fort Yukon
King Salmon
Ocean Cape
Sheep Mountain
- Folder 65, White Alice telephone directory, 10-15-1958.**
(cataloged as a separate in the public catalog)

Reference list associating towns with sites.

Towns	Site Names
Candle - Haycock	Granite Mountain
Galena	Kalakaket
Hinchinbrook Island	Boswell Bay
Homer	Diamond Ridge
Illiamna	Big Mountain
Kenai	Naptowne
Kodiak	Pillar Mountain
McGrath	Tatalina
Naknek	King Salmon
Nome	Anvil Mountain
Potter	Rabbit Creek
Tanana	Bear Creek
Unalakleet	North River
Wales	Tin City
Wasilla	Neklasson Lake