NASA's Satellite Tracking Station Herds Over 20 Orbiting Satellites

Nestled in the quiet hills.11 iles northwest of Fairbanks chnicians observe and chart -Nestled in the quiet fulls, 11 miles northwest of Fairbanks technicians observe and chart the dozens of earth circling sat-ellites that pass over Alaska in their orbits over the North Pole. Here in Fairbanks, the Nation-al Aeronautical and Space Ad-ministration operates an advanc-

ministration operates an advanc-ed satellite tracking station. Spread out to avoid unneces

spread out to avoid unneces-sary noise, isolated from the city by intervening hills, giant circular antennas follow the pas-sage of the 20 odd satellites which fall into its observation

range each day. Computers pick up informa-tion from the satellites, trans-mit course changes and orders, transmit information to Goddard Missile Base and Vandenburg Air Force Base. There, scientists take environmental data and turn it into weather forecasts, utilize the thousands of bits of scientifinformation drawn from the in satellites.

Fairbanks boasts NASA's only satellite tracking station, one of, if not the largest, in the world, RCA Service contracts to operate the site, employing over 200 personnel to man their round-the-clock watch into space. Other sites are as widely scattered as Australia, South Africa, Hawaii.

There has been a satellite tracking station near Fairbanks since 1958, when the College Minitrack station opened in College. Too close to the growing town of Fairbanks for its needs, the site moved out to 12 mile on the Steese Highway in 1961.

on the Steese Highway in 1961. Among the over 200 em-ployees manning the site's sev-eral shifts, are about 20 Alaskan Natives. Many of them partici-pated in an RCA training pro-gram in 1963. This program, which the BIA paid for, trained two dozen Alaskan Natives at the RCA Institutes in California and New York. The electronics technicians

and New York. The electronics technicians then went to work at various RCA operations in Alaska, the majority going to the NASA tracking site. Among the original techni-cians trained in the RCA course were several well known figures in Alaskan politics-Morris Thompson, present Area Director in Alaskan politics--Morris Thompson, present Area Director of the Bureau of Indian Affairs spent close to 2 years at the NASA site after his training. Emil Notti, former president of the AFN also worked at the NASA site as did Sam Kito and Sterling Johnson of the Fair-

Sterling Johnson of the Fair-banks Native Association.

In current years, the BIA has baid for Native students to attend the two year course in electronics technology at the University of Alaska. The course leads to a two year Associate University of Alaska. The course leads to a two year Associate of Arts degree and its graduates are eagerly sought by govern-ment and industry. Edward Eisele, NASA station

director at the site, showed the Tundra Times around the many and varied data collection and control areas in the main administrative buildings.

Equipment, he explained, ways changing. The NA is always changing. The NASA site is a major research and de-velopment outpost for satellite tracking and associated equipment.

It is a constant challenge, he ays, for the technical personnel who must keep abreast of the latest advances in their fields-constantly retraining to under-stand and operate new equipment.

ment. The NASA site here is the biggest and busiest in the coun-try, maybe the world, according to the station directors. RCA Service Company, which con-tracts to run the station, draws

upon all the manpower pools available to the huge company for its experienced technical personnel

Technical staff at a lower level are drawn mainly from the electronics technology course at the University today

The company prefers Alas-kans, since they are less liable to leave Fairbanks after one winter. Jobs for electronics specialists open up all the time at the site, with RCA actively at the site, with RCA actively recruiting from various technical and mechanical programs.

Even with a cutback in the Even with a cutback in the U.S. space effort, the NASA site in Alaska is apparently im-mune from extinction. The sat-ellites it researches and develops are being adopted eagerly by industry, which adapts them for such uses as communications satellites. satellites.

environmental The observations made by the satellites are

vital part of the weather predicting process, constantly trans-mitting data on the earth's cloud cover

Satellites are also being de-veloped, according to Eisele, which will moniter the minutest veloped

which will moniter the minutest movements on the ground-track-ing tiny radio transmitters hun-dreds of miles below. One problem which worries the RCA employed technicians, Natives and non-Native, is the upcoming decision on whether RCA will retain its contract to operate the NASA station. If RCA goes, many may have to leave Alaska if they wish to retain their retirement and senior-ity benefits with the company.

retain their retirement and senior-ity benefits with the company. However, the highly trained technical personnel will have no problems if they wish to remain in Alaska. Whatever company operates the NASA site will need people trained to use its space age equipment.



THE SPACE AGE-Electrical technicians at the NASA INTO tracking station near Fairbanks moniter the movements of 20 or more earth satellites each day with these banks of computers. Several of the technicians employed here by RCA are Alaskan Natives who received training funded by the BIA.

Photo by MADELYN SHULMAN