A Transportation Link Vital to Alaskan Economy

Editor's Note: The Port of Anchorage is a major force in the economy of south central and Interior Alaska and directly affects the lives of an estimated 80 percent of the state's citizens. To learn more about this vital transportation link, AC&O's Grant Peterson interviewed Port Director William McKinney. The port supervisor has been in Anchorage for 54 years, and has worked for the port for the last 10, serving as office manager and assistant port director until selected to head the facility in 1975.)

ike a great many businesses throughout the state, the Port of Anchorage has been and continues to be affected by the trans-Alaska oil pipeline. The port's ability to handle large quantities of materials needed for construction of the line was a significant factor in its schedule completion.

With the windup of the pipeline's construction phase, the amount and type of traffic at the port has changed considerably. Now the facility is preparing for what Director McKinney describes as a " slow but steady increase in traffic. We're expanding, but more to upgrade what we have rather than for additional business; we think what we have will last quite awhile."

Describing Alaska's traffic trend as ''a chart of upward and downward spurts," the port chief says the lack of a gradual change makes use projections "a guestimating procedure, especially when you try to find that hypothetical line which shows the long-term growth that's overshadowed by a boom and bust situation."

Port tonnage figures for 1975 to 1977 substantiate both a long-term increase in consumer demands (general cargo) and a reduction in pipeline-related requirements (bulk petroleum). In 1975, general cargo tonnage was over .93 million, the following year it was 1.07 million and through July 1977, the total was .6 million, representing a two percent increase. McKinney attributes this to the increased population and resulting increased commercial and residential building activity. "I doubt that the average man in the street is his daily life, especially when he goes to buy something-be it food, clothing, building materials, his transportation or whatever. It has a major effect on the prices he pays and

often on the job he has.' "Alaska's Congressional delegation, however, is well aware of the value and the importance of a port in Anchorage to the economy of southcentral Alaska, and they've been a big help in securing funding for it. I might add our service area is much larger than just Anchorage. In addition to the municipality, we ship both general cargo and petroleum products to Fairbanks, the Kenai and even to Seward."

In the area of bulk petroleum, the same two-and-one-half year period shows a significant drop in tonnage. During the peak-demand year of 1975, a total of 1.9 million tons of petroleum went through the port, much of it to meet the heavy demands generated by the pipeline construction. 1976 showed a total of 1.7 million tons and for the first six months of 1977, less than .59 million came through the port. In addition to the diminished pipeline requirements, the recentlycompleted Nikiski-to-Anchorage pipeline across Turnagain Arm also has reduced the total.

McKinney looks for further decreases in petroleum throughout "because of the refinery at North Pole near Fairbanks. If the tariff is right, the prices of refined products in Fairbanks will be less than those of refined fuels coming into Anchorage, then sent north by rail. I've been told by several of the oil companies that they won't be able to compete with the refinery's prices."

Another oil-related activity, oil exploration, in the Gulf of Alaska, has added to recent general cargo crossing the Anchorage dock-cargo. ironically bound for another port, Seward. "One of the biggest trains ever assembled by the Alaska Railroad recently went from Anchorage to Seward in support of OCS exploration in the northeast Gulf.

"That," says McKinney, "is not too surprising, however, since Anchorage is a wholesale and distributing center and that activity has held up the general cargo tonnage pretty well."

With a "leveling" general cargo and petroleum tonnage total, estimated to be about 2.5 million in 1977, the port has come a long way since construction of the number one

aware of the importance of the port to berth began in 1958. Built by DeLong Whittier and dock facilities at Valdez Construction company for \$8.2 had been destroyed. Ours was the million, the berth was completed in only dock in south-central Alaska left 1961, and included two 40-ton and two standing. We experienced some 7.5 ton level luffing gantry cranes. damage but within 96 hours, the port "For the first three years, the port was back in operation and ships were

here was pretty idle," according to stacking up here to use the only McKinney. "We had some occasional remaining facilities. Everybody movbarge traffic. Alaska Freight Lines ed in, including the railroad and the brought in three or four barges a military, to expedite the unloading of month for maybe a year and then the critically-needed supplies.

there was some local traffic due to oil "That same year, Sea-Land began exploration in the Inlet, but that was service to Alaska and chose about it until the Good Friday earth- Anchorage as their northern terquake in 1964. When the dust settled, minus. They pretty much swept the the petroleum docks at Seward and state by storm and that of course affected the freight moving through our port. When Sea-Land came in, we started developing and our tonnage has grown fantastically since then." According to tonnage records for 1961, a total of 30,000 was reported. From 1962 to 1963 tonnage increased from 100,000 to 200,000. The total by the end of 1964 was 800,000 tons-a four-fold increase in one year.

When the highly-organized Sea-Land operation arrived in Anchorage, it represented the first competition to the state's only other major carrier, Alaska Steamship Company, which unloaded in Seward. Within six months, the newcomer surpassed ASC's tonnage and in less than a year, "Alaska Steam" was all but out of business. ASC's initial problems stemmed from the demands placed on the company by the steward's union for larger salaries and lower steward-to-passenger ratios. The result was a net loss on passenger service expenditures and the elimination of the service. A far more significant problem was developing in ASC's cargo handling.

According to McKinney, they couldn't compete, "It took five days to a week to get from Seattle, through the different ports, to Seward. It then took several days to unload in Seward with part of the cargo going into ARR cars for the Anchorage-Fairbanks area and other cargo separated out for other locations."

"When the produce, such as lettuce, got to Anchorage, you had to peel off the rotten outer layers. When you bought butter, you never knew if it would be rancid or slightly sweet. Another problem was damage and pilferage resulting from the extra handling required at both Seward and Anchorage.'

Both Sea-Land and the port continued to expand their operations. In the spring of 1966, the present (612-ft) petroleum dock on the south end was begun and completed later in year. Three years later the Port of Anchorage had its second terminal, stretching 620 feet north of number one.

In 1975, the 718-ft. Terminal 3 was completed on the north end. That year also marked the beginning of the state's first roll-on/roll-off trailer ship service. Following a five-year market research and analysis, the Sun Company initiated its Totem Ocean Trailer Express (TOTE) service to the Anchorage port in September. "After an initial heavy demand from users

wanting to try them out, TOTE's ly minor, although the petroleum federal Economic Development Adtonnage has steadily increased and is operators do not agree. It takes some ministration for a second petroleum

within one week and we would go to "We do not anticipate any increase One item is the replacement of a 7.5 some kind of expedited call for bids. in employment as a result of the ton level luffing crane damaged "Pipes would go from headers to project. We do expect there will be beyond economical repair last Ocwhich we hook the hoses from the some benefit to consumers in the area tober. "To facilitate present operations, a over to lines that presently come from never be able to measure) by reducing nearly continuous dredging program is conducted by the Corps of Engineers. Originally begun in 1964 "From the safety standpoint that after the 'quake demolished the old the lines from the different petroleum includes environmental safety too adjacent Army dock, the work has companies come together) and they're because preventing breakaway of a since been done almost annually, valved. They go to the five or seven tanker would certainly eliminate the depending on silting. According to McKinney, "The silt material comes "The time left in this year's con- into the inlet where it forms Cook struction season is the determining Inlet mud, which is brought in by glacier streams and rivers flowing them and there will be a valve so they At the very least, we hope to get the into Turnagain and Knik Arms. Tons pilings in, the concrete work done and of it are deposited every day. The "So we're only talking about rough- then we have all winter to do the removal process takes two to three ly 200 feet of piping and valves, plus a piping changes-put in the valves weeks and involves dredging to minus 35 feet below mean low water, starting at the dock and moving out about 100 feet. Once loaded, it is angle-it means that the oil com- expects to pay that off in the near carried out to the middle of the Inlet panies can continue using the 35,000 future. "There were \$6 million in where currents carry it further out." McKinney also commented on the potential for increased use of the from possible breakaway. Larger the initial dock. We expect to have the present facilities: "We now have four ships mean fewer trips to deliver the bonds paid off about 20 years early, carriers coming in on a regular same amount of fuel, and a savings of before 1990, which will permit the basis—Totem Ocean Trailer Express vessel fuel is a critical factor in our issuance of new revenue bonds for (TOTE), Sea-Land, Pacific Alaska funding of needed improvements. Line and Coastal Barge Line. In addi-

now competitive with Sea-Land's, according to McKinney.

The new arrival presented some problems. The port had just negotiated a preferential berthing agreement with Sea-Land that gave them Terminal 2. "Immediately after that was signed," said McKinney, "Sun Ship came in with a proposal to ship to Anchorage using a ship 790 feet long. We felt we had enough room at the north end without disturbing anyone in either operation, if Sea-Land would remain in Terminal 1 instead of going to Terminal 2.

"Sea-Land declined and TOTE objected requesting that the Federal Maritime Commission decide the issue. In turn, Sea-Land objected to TOTE's preferential usage agreement with the municipality and their entry into trade on the grounds it would cause congestion in Cook Inlet and in the Port of Anchorage.

"The eventual outcome was that both agreements were approved but TOTE had to be given preferential use of Terminal 1 and the petroleum dock. The FMC decided the interference to the petroleum operation was relative-

project.

doing to avoid impacting their work header system 200 feet north of the and requires very careful scheduling present system on the petroleum dock. of their vessels.'

This will accommodate larger tankers Asked about additional im- and make a safe berth possible in the provements planned for the port winter.

facility, McKinney said, "We're im-" "With our present facilities," says proving the berthing situation for McKinney, "a large portion of the both tankers and dry cargo vessels ship, roughly a third of it, lies in water through changes now underway. A \$2 that, as the tide rises, puts pressure on million 180-ft. extension of Terminal 3 the ship. In the winter months, that will greatly expand and improve area of the ship gets a great deal of berthing accomodations. "At 2,730 pressure from the ice moving north feet this will give Anchorage one of with the tide. The result is a the largest continuous piers ever built breakaway action, especially with the in the United Staes," McKinney said. new 35,000 DWT tankers that are A \$500,000 contract for paving of being used by some of the oil com-

transit area A and construction of a panies." maintenance building will increase "We now can correct the problem by

the capacity of Terminal 1 for han-moving the ship farther north and by dling cargo. The transit area paving constructing in the bridge area a will include raised concrete pads for header system that is in parallel with semi-trailers, whose front parking the existing header system. The oil wheels would otherwise penetrate the companies would then have the opasphalt. These projects will be com- portunity to use either system.

pleted by November 10. Eventually "In the winter months, most would all of the transit areas will be covered, want to use the northern most header as part of a three-year improvement system, which puts most of the ship behind the dock thus avoiding the

Another major improvement just pressure on the bow. approved is a \$500,000 grant from the "Formal engineering could be done an area called the 'spaghetti farm' consume.

(actually a valving station where all lines that come from our petroleum chances of a spill. dock. There will be five lines and they will be in parallel with the lines that can use either header system.

little deck work and maybe four, and the pipes.'

operations.

tankers, to the back of the dock and over the long haul (which we would the petroleum dock and go ashore to the transportation costs of the fuel we'

presently exist. They will tap into factor on when we finish the project.

pilings to support this system. But it Other future projects await the payhas this appeal from the safety off of bonded indebtness. McKinney DWT tankers during the winter revenue bonds and \$2 million in months because they will be protected general obligation bonds sold to build

tion, the five major oil companies marketing in the area-Standard, Union, Texaco, Shell and Tesoro-

port. could almost double the amount of ore. freight handled with the present carrier and equipment. TOTE and Sea-Land could add vessels to their eaten up by a land haul and a lot of schedule and they would not require extra handling just to get cargo to the additional berth space (TOTE water. It may be that the economics averages about three off-loadings dur- are such that it would be cheaper to ing a seven-day period and Sea-Land about four). They could probably in- way south to the Lower 48 by rail than crease the volume of freight they haul to move it to tidewater by ARR and by 100 percent. With the total number then tranfer it to a vessel." of ships and their capacity, they're probably utilizing only about 50 per- projects that will impact his facility, cent of their potential. Sea-Land es- McKinney sees two: "The gas pipeline

pecially would have an easy time will have a noticeable effect on the increasing their loads with the larger tonnage, even if not one pound of ships that are available to them."

have the room, and we plan to expand retailers will be needed and this will our staging facilities to facilitate be shipped in. movement of large quantities of bulk

handling. bring their stove oil, aviation and railroad extension from the Lower 48 concrete and steel needed for it and I diesel fuels, and gasoline through the through Canada to Fairbanks. If would expect a large part to come there will be any mineral develop- across our docks.

Although water transportation is the cheapest mode, the savings can be move ore, coal, or whatever all the

Looking at possible future major freight comes across the markings for "It might require additional area the line. Camps, food, clothing and for staging the loads but we think we other support from wholesalers and

"The big one as I see it is the hydro-

materials, which we think we will be power work on the Susitna River. This will have a tremendous impact on us. "There are studies going on of a There'll be an enormous amount of

"Although use tends to be seasonal ment it probably will occur in the If and when it does, there is little (avoiding the hard winter months of Brooks Range. The railroad could doubt McKinney and his crew will be December through February) we carry the southbound movement of more than ready (and waiting) for

it. 🗆