

Satellites Are Slow Compared To Calling Via Direct Dialing

(Editor's note: This is the third in a series of stories on direct distance dialing, the new long distance service to be introduced July 15 in Medford.)

Fast as they are, earth satellites are slowpokes in some leagues. For instance, a satellite is 40 times slower than a long distance call traveling 3,000 miles across the country by new direct distance dialing.

"Figuring that the maximum speed of a satellite is 18,000 miles an hour," according to Manager J. H. Creager, "it takes 10 minutes for one to travel 3,000 miles."

"Completing a call by DDD across the country usually takes 15 seconds or less," he noted.

Switching Centers

How can these calls to most any place in the nation be handled so quickly? It's made possible primarily by a combination of a nationwide network or expressway-type long

distance lines connected to switching centers located strategically throughout the country. Also involved is the automatic accounting equipment which records details of the call for billing purposes.

To illustrate, let's suppose Creager was placing a call to some community on the east coast.

First he would dial the numeral "1," to connect his phone with the long distance network.

Then he would dial the three-numeral code designating the state or geographical area in which the community he wants to reach is located.

Dial Seven Digits

And last he would dial the seven digits of the telephone number he is calling.

Immediately, the switching equipment at the company's central office here would recognize that this is a long distance call going out of Oregon. The automatic accounting equipment would start collect-

ing the details of the call. And at the same time the switching equipment here would send the area code and the desired phone number on an "expressway" line to the company's sectional long distance switching center in Portland.

Making their presence known in the Portland center, the digits would announce that they are headed for the east coast. The Portland switching equipment would at once pick out an express route for the call to follow eastward. If the main route for the call were busy, then the Portland equipment would search out an alternate "expressway."

Then the call speeds on its way across the country—perhaps passing through as many as four or five more switching centers before it reaches the east coast. There equipment at the last switching center or central office in this vast network rings the bell of the phone being called and connects it to the long distance expressway across the country from Medford.

That's how a DDD call will travel from Medford to most any place in the nation, 40 times faster than the speed of a satellite.

And calls dialed directly to Oregon communities, Creager said, will travel even faster. For there will be no need to dial the three-numeral area code, only the digit "1" and the seven digits of the telephone number being called.



FASTER THAN A SATELLITE—To illustrate graphically the speed of direct distance dialing service, to be introduced in Medford July 15, Pacific Northwest Bell Operator Garen Storde dresses in space suit, complete with antenna.

MEDFORD MAIL TRIBUNE

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Navy To Reduce Size of Corridor

Pendleton, Ore. — The U.S. Navy agreed Wednesday to reduce the size of an air approach corridor to its new east Boardman bombing range.

The corridor, one of three, would have placed a restriction on certain traffic on a major flight airway between Pendleton and Portland.

Opposition at the Federal Aviation hearing came from United Airlines, Morrow County agricultural interests and the Oregon Pilots Association.

The opposition was withdrawn after the navy agreed to the reduction in size of the southwest corridor.

Commander Roger Nelson of the Whidby Island Naval Air Station said the reduction in size of the corridor was subject to approval by Washington, D.C.

Sam Mallicoat, director of the state department of planning and development, said he was hopeful that final approval between the Navy and the FAA could go through within 45 to 60 days.

Mallicoat felt this would allow the navy to move to the east part of the range and therefore allow the Boeing Company of Seattle to take possession of the west half of the range for static testing of missiles.

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Reattraction of Suburb Dwellers Planned By City

By ALLAN PRIAULX
United Press International
Buffalo, N.Y. — (UPI) — New York State's second largest city has started an attempt to realize the dream of hundreds of American cities — the recapture of thousands of citizens who have been lured to the suburbs by new shopping plazas, free parking, bright architectural design and plenty of space.

Buffalo has embarked on a 10-year, \$650 million plan that calls for ripping out slums and turning major downtown streets into parks and malls. Towering shopping plazas and luxury apartments will replace antiquated buildings or vacant slum lots.

"We want to develop Buffalo entirely in accord with the type of American city we envision for the late 20th century," said George F. Rand Jr., chairman of the City Planning board.

Currently the Lake Erie waterfront area, the city's front yard and once the heart of Erie canal shipping, is a "decayed wasteland," Rand said. "The waterfront area has 400 vacant acres of land with water frontage," planning board executive secretary

James Kavanaugh said. "It's desolate. Elevators are closed and manufacturing has moved out," he said.

The city has adopted a proposal to replace the wasteland with a \$200 million complex of 20-story upper and middle-class apartment houses with balconies offering views of the city skyline or the lake, ranch style "town houses," and a man-made 30-acre island with shoreline garden, amphitheater and restaurant.

The new apartment complex, housing 15,000 persons will become virtually a suburb within the city, according to the architects. It will have schools, shops, parks and garden courts with fountains and sculptures.

Milton Milstein, head of a group of designers who submitted the proposal, predicts the redeveloped area will bring the city annual tax revenues of \$3 million, compared with the present \$500,000.

In the downtown area, several blocks east of the waterfront, plans call for closing all radial streets leading into the city's main traffic circle and traffic congester, Niagara Square.

Asphalt on six main streets will give way to green malls planted with shrubs and trees. New peripheral streets will be built, others widened to provide access to the core.

New Plans

The planning commission has called for a three-block high-rise shopping plaza, at least five new office skyscrapers, municipally financed parking ramps and improvements in some older buildings. A \$5 million state office building is under construction and the federal and county governments plan new buildings.

The city's Convention and Tourist bureau also will get a boost with spacious new exhibit and assembly facilities to supplement the 15,000-seat Memorial auditorium.

These and other plans raise an all-important question in the minds of many residents: "Where will Buffalo get \$650 million?"

A shrinking tax base and a mass move to the suburbs have hurt the city. In the last census, Buffalo dropped from a population of 580,000 to 532,700, and from the nation's sixteenth largest city to its twentieth largest.

Rand says he thinks private investors will gamble on the city. And he's in a position to know. He is vice president of Buffalo's largest bank, the Marine Trust, and vice president of the investment-eager Greater Buffalo foundation.

Rand said private investments will total \$500 million, city funds will come to \$50 million and the Federal Urban Renewal administration will be counted on for \$100 million.

Miss Oregon Semi-Finalist

Miami Beach — (UPI) — Girls from the Far West dominate the group of 10 brunettes and 5 blondes competing in the Miss Universe pageant tonight for the title of Miss U.S.A.

Every section of the nation, including Hawaii, is represented, but a bloc of western states provided more than one-third of the semi-finalists chosen Wednesday night from 40 contestants.

The semi-finalists were: Miss Arizona, Marilyn Jerri Michelson of Scottsdale; California, Marilyn Ann Tindall of Hollywood; Colorado, Penny Jo James of Aurora; Connecticut, Diane Mary Zabicki of Middletown; Hawaii, Macl Leilani Wilson of Honolulu; Illinois, Jean Donnelly of Dekalb; Indiana, Susan Ekamp of Mishawaka; Nevada, Janet Hamlet of Las Vegas; New Hampshire, Sandra Kay of Plaistow; New York, Sherrylyn Patecell of Flushing; Oregon, Joyce Norreen Collin of Lebanon; Pennsylvania, Margaret M. Linehan of Philadelphia; Tennessee, Gail White of Chattanooga; Texas, Jackie Jay Williams of Waxahatchie; and Utah, Patricia Elaine Proffizer of Ogden.

Potential Coal Uses Forecast In Report

Baltimore, Md. — The future of coal looks bright in "many new potentially useful and exciting areas," according to a report made at a recent meeting of the American Institute of Chemical Engineers.

Among new uses for coal, the report forecast: as a solid propellant for missiles and rockets; in a package piston pump as a substitute for gas in natural gas production; as an agent to melt ice and snow to produce more fresh water and prevent flooding; as a fertilizer and soil conditioner and as structural material.

MOVING DAY

Point Arguello, Calif. — Whenever a Thor-Agent missile is to be launched, the entire population of the nearby town of Surf is evacuated by the Navy. The civilians, Southern Pacific Railroad maintenance employees and their families, usually are served a picnic lunch at a park a safe distance from launch facilities.

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