

Mobile Substation Maintained Here

A massive mobile substation, equipped to roll along highways at high speeds for use throughout Pacific Power & Light company's southern Oregon and northern California system, has been delivered to the company and is ready for its job of maintaining electric service to customers.

Frank Bash, Copco division manager, explained the unit will be stationed at Medford, at the approximate center of the Copco division operations west of the Cascades.

"All of our customers are going to benefit from the availability of this useful piece of equipment, because it will make it possible to maintain power service at times when our customers might otherwise have been inconvenienced," Bash stated this week.

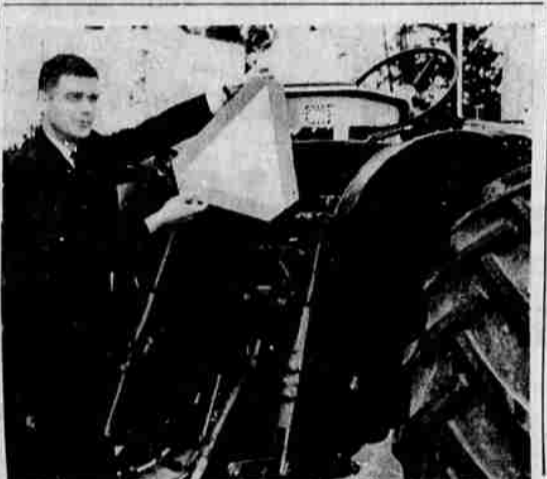
The equipment is described as one of three such units Pacific Power now has located strategically throughout its Oregon, Washington and northern California service areas for use in emergencies when a substation is knocked out of service or when needed to take over the substation function while routine maintenance work is in progress.

Mounted on a semi-trailer, the \$72,000 mobile substation consists of a large-capacity transformer that can handle 69,000 and 120,000 volt circuits, plus all of the auxiliary terminal and insulating equipment required for the job of reducing high voltage "juice" to lower voltage for distribution to customers.

It was specially designed to comply with highway vehicle weight limitations.



FESTIVAL DIRECTOR—Angus L. Bowmer, producing director of the Oregon Shakespearean Festival, chatted with Dr. Leota Willis, Seattle, of the University of Washington, during opening night festivities in Ashland last evening. The festival's 23rd season will be the longest on record, continuing until Sept. 7. (Dwayne Smith photo)



Man and Space

Space Agency Plans Manned Station To Carry Astronauts

By LEON DANIEL

Cap Canaveral (UPI) — The federal space agency is designing a space station that could carry 30 men and stay in orbit up to five years.

According to first drawings the station would resemble a huge doughnut with three spokes joined to an inside hub. Astronauts would use the hub to land their space ships and to board again for the return trip back down to earth.

Nuclear Rocket — The nuclear rocket is considered the next major step in space propulsion, but it is a step the United States is having trouble taking.

It now looks as though America's first nuclear-powered rocket won't fly until 1968 or later. The reason is that serious troubles have developed in a prototype program called Rover.

The Rover series presently is testing several engines at a proving center in Nevada. Scientists had hoped to use the knowledge to build a nuclear rocket by 1967. But new engineering problems and difficulties in finding the right materials are threatening to delay the program a year or more.

Telemetry System — A new 85-foot telemetry system has been put in operation on the Atlantic missile range which starts at Cape Canaveral.

The big dish is at Palm Bay, Fla. — just south of the missile firing center. A similar antenna will be installed on one of the down-range islands soon.

The highly advanced system will be used to track the latest missiles fired into the Atlantic ocean from Cape Canaveral.

The United States will try to launch its revolutionary Centaur space rocket from Cape Canaveral sometime this summer — probably in August. The Centaur uses high energy hydrogen fuel, the propellant that will be the key in American efforts to land men on the moon this decade.

But the first launching of the new rocket last May failed, and the program has run into troubles.

The second flight will be an up-and-down at t. e. m. p. Its main aim will be to ignite the

hydrogen-fueled second stage. **Solid Propellant Missile** — The Department of Defense is looking for a solid-propellant anti-missile missile that will take off up to 100 times faster than more conventional solid-fueled rockets.

United Technology Center in Sunnyvale, Calif., will study the problem under a six-month contract. Such a booster rocket would generate enough thrust to send a payload several miles up in less than one second.

System of Hibernation — Some scientists think a sys-

tem of hibernation may be best for astronauts making long trips into space.

One such proposal is that the spacemen be put in a state of suspended animation. This would involve bringing down the body temperature and slowing all other life processes such as heartbeat and brain activity.

Experts say that in such a condition an astronaut would be able to take the stresses of space flight — including radiation exposure — much better. The problem is that a drug to do the job has yet to be found.

But the search for it is under way in U.S. laboratories.

When novelist Jules Verne wrote more than a century ago about a voyage to the moon, he proposed using a cannon to provide the power.

American scientists recently used a 16-inch cannon to blast a 475-pound capsule of weather instruments 15 miles into the atmosphere. The experiment was conducted in the West Indies.

But scientists are not considering cannon propulsion for manned flights into space. The jolt would be too stiff.

Oregon Jobless Figure Mounts

Salem (UPI) — The current lumber labor dispute has boosted unemployment in Oregon above the figure a year ago, the state department of employment said Wednesday.

However, Commissioner David H. Cameron said the figure is less than it was four weeks ago.

The rate of insured unemployment in the state was set at 3.8 per cent for the week ending July 18. That is 13 per cent above a year ago but 1.3 per cent below the June figure.

The lumber dispute has been felt most at North Bend, Eugene and Klamath Falls. In North Bend there are now 3,200 persons directly involved and another 300 who are indirectly affected, Cameron said. The city has the

highest unemployment in the state with 10.3 per cent.

Baker has the lowest rate of 1.6 per cent. Corvallis has a 1.9 per cent rate.

Rates in other Oregon cities include Eugene, 6.2 per cent; Klamath Falls, 8.3; Medford, 3.9; Pendleton and Milton-Freewater, 2.5; Portland 2.7 and Salem 3.1.

VISITS CASTRO

Algiers, Algeria (UPI) — Defense Minister Houari Boumediene was expected to arrive in Cuba today for an official visit. He was traveling with Cuban Industry Minister Ernest (Che) Guevara, who has been here since Algeria's independence celebrations, July 5.

IDENTIFICATION SIGN — Slow moving vehicles along Oregon highways can be easily spotted if they carry this new identifying symbol. Gov. Mark O. Hatfield recently hung the first marker on a tractor in Salem to remind residents of Farm Safety Week July 21 to 27. Agriculture is Oregon's second largest industry and every farm accident adds to the cost of food. Improvement of the state's farm safety record is a job for everyone, not just the farmer.

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