



Wide-sprayed

PHIL SCHNEIDER mans a fire hose during a practice maneuver Monday night at the fire hall. Schneider and three other Sandy High students are part of the 10-man high school auxiliary to the fire department. The group is training to become volunteers for the department — and possibly, paid firefighters sometime in the future.

Small hydro plants eyed for future energy

An Oregon State University research team says small stream, low head, hydropower generation is "a viable and attractive short-term power source for the Pacific Northwest."

It will be expensive, however. Cost per kilowatt from low head production would be higher than for big hydroelectric, nuclear and coal-fueled plants.

The researchers report that automatic controllers can be used without operators to produce power on small streams that have largely been ignored earlier as a potential energy source.

The feasibility study is supported by a \$61,180 grant from the U.S. Department of Energy.

Pieter A. Frick, professor of electrical and computer engineering, heads the project, entitled "Cost of Controls for 'Small' Hydroelectric Plants on River Systems." Two other engineering professors, G. Corwin Alexander and John

F. Engle, are working with Frick.

"This study has forced us to consider almost every aspect of low head hydropower generation," Frick summarized. "It has left us firmly convinced that low head generation is a viable and attractive short-term power source for the Pacific Northwest until the first controlled fission and-or fusion installations come into being early in the next century."

Compared with solar and wind power generation, low head hydro "has distinct advantages in that it requires very little new technological development," he added.

With low head power, little additional equipment would be required above that currently used in hydro generating installations.

"Control principles and procedures would differ significantly, however," Frick said. "Because small dams are more sensitive to

streamflow variation, accurate and tight control of the head is necessary."

"More importantly, we have learned that control over a much wider flow range can be obtained by using the propeller blade angle in turbines rather than employing traditional intake or wicket gates for this purpose," he noted.

"This finding is expected to considerably cut the cost of automatic controllers for low head plants."

Low head hydro power will not be inexpensive. Current estimates for low head power range from \$900 to \$2,000 per kilowatt installed capacity. These estimates are based on plant capacities of from a half to 5 megawatts.

Incorporating low head hydro power generation into existing power distribution networks poses "the most serious unsolved problem," the team of engineers reported.

"Because of the size and inherent variability in their

output, low head sites will, in almost all cases, have to be constructed in groups of three or four in the same stream and-or its tributaries to provide a firm and controllable power source," the report stated.

Both the cost and the regulation problem puts low head hydro development predominantly in the hands of utilities, the state and federal government, rather than the individual consumer.

"Some preliminary work

in this area indicates that low head dams can be built by using preconstructed modules that are lifted and literally glued into place. This approach is particularly attractive in that fish ladders become an integral part of the dam wall and that construction and demolition processes (when alternate sources become available), can be performed with minimal effort and damage to the streambed and banks," the report concluded.

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Council endorses MSD plan

by DAN DILLON

The Sandy City Council breezed through its agenda Monday night endorsing the Housing Opportunity Plan, appointing a committee to study the sign ordinance and taking time to honor a past mayor.

Council voted unanimously to endorse the housing plan prepared by the Metropolitan Service District. The plan assesses the needs for low-income housing in the Tri-county area.

An inequitable distribution of funds was discovered by MSD when the report was prepared and it is hoped that rural areas, like Sandy, will receive a "fair share" as a result of this plan, according to City Manager Roger Jordan.

The report concluded that the rural areas of Clackamas, Washington and Multnomah counties have at least as great a need as the urban areas which now get the largest slice of the pie, yet they receive less than their fair share.

The vote Monday acknowledged the report, but distribution of any monies will be handled by Clackamas County officials.

Council, acting on the recommendations of Mayor Ruth Loundree, unanimously approved Mike Lesowski, Phil Jonsrud, Chuck Jones, Olin Bignall, Marv Hansen, Greg Grotkett and Dale Nicholls as appointees to a committee to study the sign ordinance.

As the meeting began, Mayor Loundree honored former Mayor Mel Haneberg and two past members of the council, Olin Bignall and George Burg, for their service to Sandy. They were presented with certificates of appreciation and the nameplates that bore their names while serving in the Council chambers.

Council adopted a zoning ordinance amendment changing the zoning of a piece of land on the northeast corner of Dubarke Road and Meinig Road from Clackamas County, Single Family Residential to R-1. Single Family Residential within the city. Council also changed the zoning from R-20 Single Family Residential to C-2 (General Commercial) for a piece of land located on Highway 26 across from Industrial Way.

In other action, the council: — appointed Dennis Petrequin, city planner, to the Design Review Board. — appointed Sandra Potter,

director of Community Services and Recreation, to the Sandy Community Action Council.

— Endorsed a liquor license renewal for Foothills Inn.

— appointed Councilman Jim Duff to serve as Sandy's representative on the Clackamas County Traffic Safety Commission.

Vandals plague police

A sudden rash of reported incidents of criminal mischief has kept Sandy police busy recently.

Since last Friday, seven cases involving vandalism have been reported. Cases have ranged from broken windows to landscape destruction.

Friday, police responded to a call at Sandy Union High School where it was alleged that a car door had been kicked in in the parking lot. Later that day, a bus driver for the Sandy Grade School reported that someone outside the bus had broken window while he was on his route. Damage was listed at \$50.

A resident on Netconnet Street reported to police that someone was throwing eggs at his house Friday evening.

Plants and shrubs around the high school were torn up late Friday night. Police investigating the incident found empty alcohol bottles near the school's library.

Later Saturday, a Sandy resident reported that someone had broken the antennas and wiper blades on his four vehicles. The vandals also smashed two windows in the victim's travel trailer. Damage was estimated at \$75.

The Sandy High School Transportation Department reported to police Sunday that a CB radio had been taken from a bus. The thief had cut all the wires while removing the radio.

An assault occurred last Thursday at Tony's East Bar. The victim suffered a broken nose and lost two teeth in the altercation. No arrests have been made.

Three juveniles were taken into custody early that day when they allegedly trespassed on posted private property on Bluff Road. The police transported them to school. Another juvenile was arrested for shoplifting and was released to the parents. The item was valued at \$1.50.

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Hoodland Happenings

by CAROL THURLKILL
Post Correspondent

Thursday, April 5: from 3 to 7 p.m., Hoodland Preschool will hold an open house of the children's art work at the Hoodland Womens' Club. The public and former preschool parents are invited.

Also, PTA parents' work night begins at 7:30 p.m. in each child's classroom at Welches School.

Friday, April 6: A new youth recreational group will be organizing at the Hoodland Womens' Club.

Also, PTA will show the movie "The Rescuers" from 7:30 p.m. to 9:30 p.m. at Welches School. Admission is 50 cents for children and \$1 for adults.

Tuesday, April 10: Hoodland Senior Citizens' noon potluck will be held in the Lion's Club.

Wednesday, April 11: Hoodland Community School registration will be from 11 a.m. to 1 p.m. and 7 to 8:30 p.m. at the Community School Trailer at Welches School. Flyers are available at U.S. Bank, Clackamas County Bank and at all local post offices. Call Reva Cox at 622-3397 for more information.

Also, Welches School will have an art fair from 7 to 8:30 p.m. Children are working on special projects for the program. Lion's Auxiliary Board Meeting begins at 8 p.m. in the Lion's Hall.

Thursday, April 12: from 10 to 12:30 p.m., several Clackamas County Home Extension study groups from throughout the county will be meeting to discuss creative, low-budget home furnishings. They will meet at the Oddfellows Hall in Sandy. Also, Hoodland Senior

Citizens' Keep Well Clinic has openings for appointments between 9 a.m. and 3 p.m. at the Hoodland Women's Club. Call Maxine Worley at 622-3331 for an appointment.

Friday, April 13: Hoodland Preschool parents will hold a bake sale from 9 a.m. to 5 p.m. at Clackamas County Bank in Wemme.

Hoodland's Volunteer Fire Department had a calm week with one auto accident, a heart call, and a car fire. However, calls are about double what they were last year for the month of March.

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