

Mill: fuel will come from various sources

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The steam flows through each stage of the turbine, exchanging thermal energy for mechanical energy, and turning a rotor. The rotor is connected to a generator. An electromagnetic field rotates with the shaft of the generator.

"As it rotates, it cuts the copper windings in the stationary part of the generator, and that's what generates electricity," Kelly said. "We have three 3-megawatt machines for a total link capacity of nine megs right now, but since we don't have the power sales agreement with the utility, they don't pay us enough to make it worth our while to put power back on the Pacific Power grid."

"So right now, we're just running one of the three, and when the new machine comes on line, we hope it will be set up so that we sell everything to whoever agrees to purchase it, and then the production facilities here will turn around and buy everything they need to run the mill."

The new facility will be able to generate around 18 to 20 megawatts.

"This will be a state-of-the-art unit," Kelly said. "We expect to run this boiler and the existing turbine generators with two people on a shift. It runs 24 hours a day, seven days a week. On the day shift, we'll probably have two or three more workers. We'll probably have a maintenance person and a fuel handler."

The wood fuel for the boilers will come from several different sources, Kelly said. Some fuel will be waste wood from WSFPI's planning, milling and manufacturing processes. Other fuel will come from outside of the reservation, like from national forest and private lands.

"GeoVisions just brought in a load of hog fuel from an orchard that they're trying to refurbish on the reservation," Kelly said. "At the present time we're getting some hog fuel off the reservation that was thinned last year and has been lying out there."

The fuel will also come from waste wood from building and construction sites in urban areas.



Above, Glenn Brunoe (left) and Anthony "Chaz" Mitchell work on the top floor of the boiler under construction at Warm Springs Forest Products Industries. At right is the boiler.

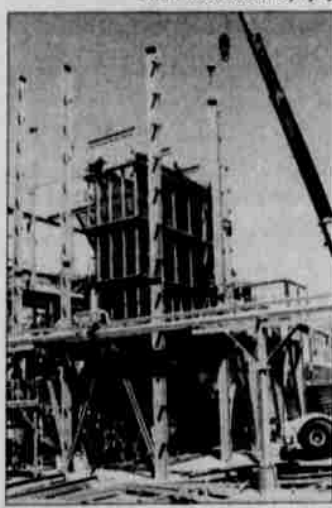
"We haven't gotten any of that this year, but there are a lot of places in the Portland metropolitan area that recycle wood waste, and any other kind of fiber they get in," he said. "They'll hog it up, and they'll have to sell that."

Kelly said there is no definite timeline to building the second boiler and turbine generator. He said that construction of those facilities could be completed within a year and half of finding a buyer for the power and gaining approval from Tribal Council.

The cost of the two boilers and generator has not been determined, because the turbine size has not yet been selected, said Kelly. An estimate, though, puts the whole system in the range of \$20 million.

"It kind of depends on what components we decide to include in the whole plant," he said.

WSFPI and the manufacturer of the machinery, Wellons Inc. of Sherwood, reached



Brian Mortensen/Spilyay

agreement allowing the mill to pay for the project over a 10-year period. "And we're always looking for grant money from various sources," said Kelly.

Tribal members and people from Wellons are working together on the boiler at WSFPI. "There are at least four tribal members on his crew right now," said Kelly.

He said there is a formal training program, sponsored by the Oregon Bureau of Labor and Industries and administered by Central Oregon Community College. WSFPI employees can become certified boiler operators through the two-year program and earn college credit. If they stick it out another two years, they can become certified turbine operators.

Today's technology demands cleaner-burning equipment, and the new boilers at WSFPI will be equipped with a feature called an electrostatic precipitator, or ESP. "It scrubs the flue gases or the exhaust gases from the boiler and it takes really small particles out of the flue gases so they don't get into the atmo-

sphere," Kelly said.

Kelly said the ESP will remove 99 percent of any particulates from the exhaust. Construction for the boiler began Jan. 31. It was originally scheduled to begin operation June 1, but the EPA held up the project in its efforts to make certain it would be environmentally clean.

"But that's all been resolved," Kelly said. "We've got the federal operating permit, which was issued early last month. The permit allows us to start the boiler whenever it is finished."

KWSO: grant helps budget

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"You have to send them an audiofile," she said.

And in the long-term, Matters said she'd like to see KWSO have the technology to do live streaming, so anyone in the world could listen to the station on his computer.

"So you could be anywhere in America and the world and see where the yard sales are, or be close to home and hear 'Talking Drum,'" Matters said. "So it'd be another way to be out there."

Matters said the station could use some new telephones, upgrade its link with the Associ-

ated Press wire, and buy equipment that would allow it to broadcast remotely using a cell phone.

"We could go to anything," she said. "We could go to Pi-Ume-Sha, broadcasting live, if we had power."

Matters said the grant's biggest dividend is that it takes the burden off its \$200,000 budget.

"Our bottom line is \$200,000, but our personnel expenses are \$224,000 because we have seven full-time staff," she said. On top of that, there's a \$33,000 item on its budget calling for "other federal miscellaneous" monies that have never been available and have usually put the station in a hole by the end of each fiscal year.

Downtown: input sought on plan

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Leading the consulting team is Mitchell Nelson Group LLC of Portland, land-use and community planners. They are assisted by economic development specialist of Elesco Ltd. of Sunriver.

This team recommended that the tribes concentrate new development efforts in the downtown after a comprehensive planning and economic assessment of tribal lands was completed in 2001.

Engineers and planners of Cascade Design Professionals Inc. of Portland are also participating in the project. Transportation planning is provided by David Evans and Associates, from their Bend office. The project is funded through EDA and ODOT grants.

Local members of the planning team are from Business and Economic Development, Public Utilities, BIA Roads, Engineering, Ventures, Land Use Planning Committee, Realty, Chamber of Commerce, Museum and Planning.

(Note: This article was provided by the Downtown Plan Focus Group.)

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Simnasho Powwow 2005; Drumside Vol. 1, 2005; Handrum Vol. 1, 2005; Bizmark Powwow 2004 and Team Special; Schemitzun/Foxwoods Powwow 2004.

Julymish/Post Falls Powwow 2004 and Teen Finals; White Swan Treaty Days Powwow 2004; Three Warriors the movie (1979); and J. Greeley's Native Flute CD w/ DVD July 2005 (\$20).

Attention: Lamprey harvesters at Willamette Falls

Portland General Electric and the U.S. Geological Survey is conducting an adult eel (Pacific lamprey) radio tagging study at Willamette Falls during the tribal harvest period, through July 31, 2005.

They are surgically implanting 150 eels with radio tags and releasing them below Willamette Falls for the study. The tagged eels will have an antenna showing near the tail.

If a tagged lamprey is harvested, please return it to the river to remain a part of the study.

If a tagged lamprey is accidentally removed from the falls, please call PGE at 503-630-8232 before eating any tagged lamprey. The same phone number is on the radio tag.

Thank you, from PGE Environmental Services and USGS. The Warm Springs Department of Natural Resources would also like you to be aware that Willamette Falls eels have potentially been introduced to a chemical during the surgical process that should not be consumed within 30 days of exposure.

Therefore, it is important to call the above PGE phone number to verify that the eels are past the 30-day period.

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