Learning how to move through the penstock on her back on a skateboard

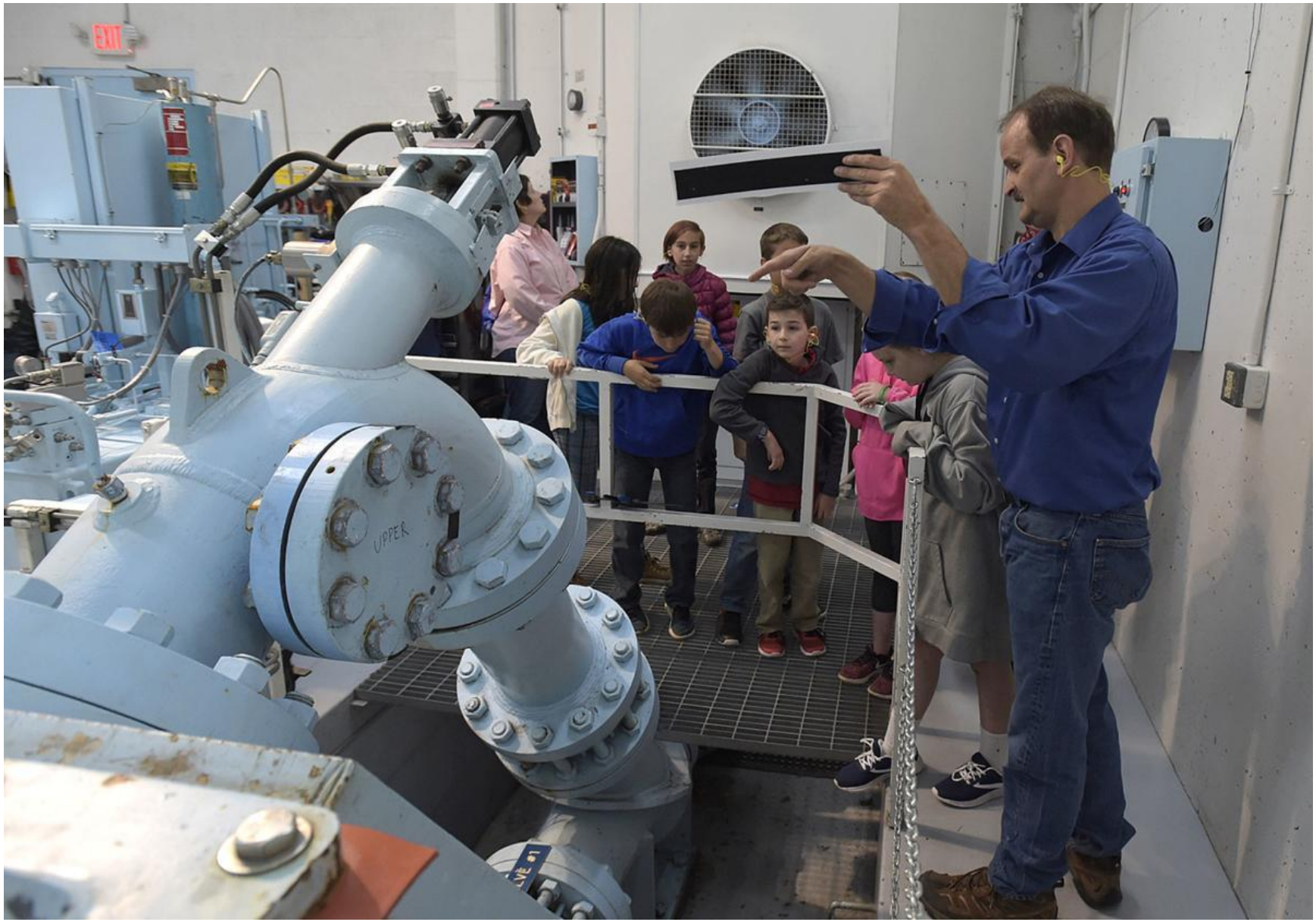
Lights go on inside their imaginations as they spin a toy generator to light up houses

How fast can they spin a real turbine?

The kids spin it at 24 revolutions a minute when operating it turns 20 times a second!

The turbine turns 6,000 pounds of steel 20 times a second!

Electricity like water can move faster when repackaged into smaller units, like 12 once water bottles instead of a 2 gallon jug. Foot race makes them feel the concept. That's what a transformer does.



Keith explains the turbine in practice

Control panels

Diane talks about the Kalapuya Native Americans who used to live here

At the top of the mountain is the intake structure where it all starts


JORDAN

The water is diverted into a pipe or a buried penstock for 8,000 feet. The vertical drop is about 2,400 feet, one of the highest in the continental USA. The water develops over 1,000 PSI of pressure.

The Falls Creek Project was built to last and could provide clean electricity and benefits to rural Linn County for another 100 years.