

# Process Description 2024

The facility is a biomass fired steam electric power plant. It acquires “hog fuel” (ground wood waste) from multiple sources including wood products facilities, orchard replacement, forest residuals from logging and thinning operations, as well as biomass material from consumers such as yard debris and remodeling waste. A portion of this biomass material is processed by the Plant’s own fixed or mobile grinding operations.

The biomass fuel is then stored in a fuel pile (TEU-028) where it is spread out to make the pile as homogeneous as possible in order to facilitate stable boiler operations. While stored in the pile the biomass emits methanol due to decomposition of the woody biomass.

The acquired biomass fuel is then conveyed to the two Deltak boilers, one delineated as North (TEU-011) and one delineated as South (TEU-012). The fuel is conveyed to the boilers where it is combusted to produce steam which is subsequently used in one of a pair of General Electric steam turbines to produce electricity (there is a third, backup generator that is not normally operated). The electricity is then routed through the Plant’s substation into the “power grid” and sold to Pacific Corp.

To support the operation of the Plant there is a Maintenance Shop where welding (TEU-054) and repairs occur. The vast majority of the welding occurs in the Maintenance Shop or Plant Operations area (boilers). In the Maintenance Shop there is also specialized welding (TEU-055) referred to as “hardfacing”.

The Maintenance Shop also has a “used oil” fired space heater (TEU-013) that operates in the cold months to provide heat to warm the work area of the Shop.

There are also chemicals used in the Maintenance Shop (TEU-061) and Truck Shop (TEU-062).

Lastly there is onsite grinding of green wood (TEU-064) for fuel.