

Portishead B Power Station

Ash Handling Plant

The clinker from the wet ash hopper below the boiler furnaces is removed by a high pressure sluicing system to swirl pits in the ash plant pump house which is located centrally at the rear of the station.

Dust from the hoppers of the economisers and dust extraction equipment is removed pneumatically by the use of high-pressure water ejectors discharging direct into the ash sluiceways.

High-pressure ash pumps are used to deliver the ash mixture from the swirl pits to distant concrete settling ponds which are designed for continuous drainage, the filtered water being handled by return water pumps to a reservoir located in the ash plant pump house. High-pressure pumps connected to this reservoir supply the water for sluiceway jets and ejectors. The layout thus provides a complete water recirculating system.

Duplicate settling ponds are provided, one being emptied of drained ash by means of mobile equipment and lorries, while the adjacent pond is in commission.

The ash removed from the settling pits is transported by lorry to distant ash disposal grounds, situated east of the dock.

Extracted from CEGB booklet published 1960.