Germany

Planning and Construction of Pretreatment Plant for Hazardous Waste

Client

Wacker Chemie, Burghausen

Objectives

The chemical company Wacker Chemie, Burghausen, Germany, disposes of its hazardous waste with ist own incineration plant on the production site. In order to raise the capacity and at the same time to reduce emissions from the incineration plant a pretreatment unit for solid and pasteous chemical production waste was to be installed.

BC Berlin was assigned the planning, the procurement and the erection of the pretreatment plant for pasteous and solid residues to be incinerated in the combustion plant.

Project Stages

The stages planning, project management and realization contained:

- Detail engineering
- Procurement
- Erection
- Initial operation

Activities

1. CONCEPT

Solid and pasteous residues are lifted by an elevator to be discharged into an inertized chamber for the charging of a rotor grinder.

The crushed waste drops then into a mixer where the different components of the waste are homogenized. From the mixer the homogeneous mass drops into a charging chamber of a mono piston pump.

The mono piston pump moves the mixture via a high pressure pipe into the combustion chamber of the incineration plant.

In a separate compartment sludges form the production lines are filled in and conveyed by hydraulic sludge pumps either into the mixer for the shredded waste or directly into the combustion chamber.

2. TECHNICAL DATA

Capacity:	15.000 t p. a. hazardous waste
thereof	1.200 t p. a. in barrels of as bulk
	800 t p. a. filter residues
	8.000 t p. a. process residues
	3.800 t p. a. sludges
	1.200 t p. a. other residues

The material is charged either within closed barrels or discharged from open barrels or from vacuum trucks and collection vessels.

3. PROJECT REALIZATION

The project was executed in an open book procedure. The close cooperation between the client and the contractor allowed a substantial cost reduction without any diminution of safety or reliability.

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