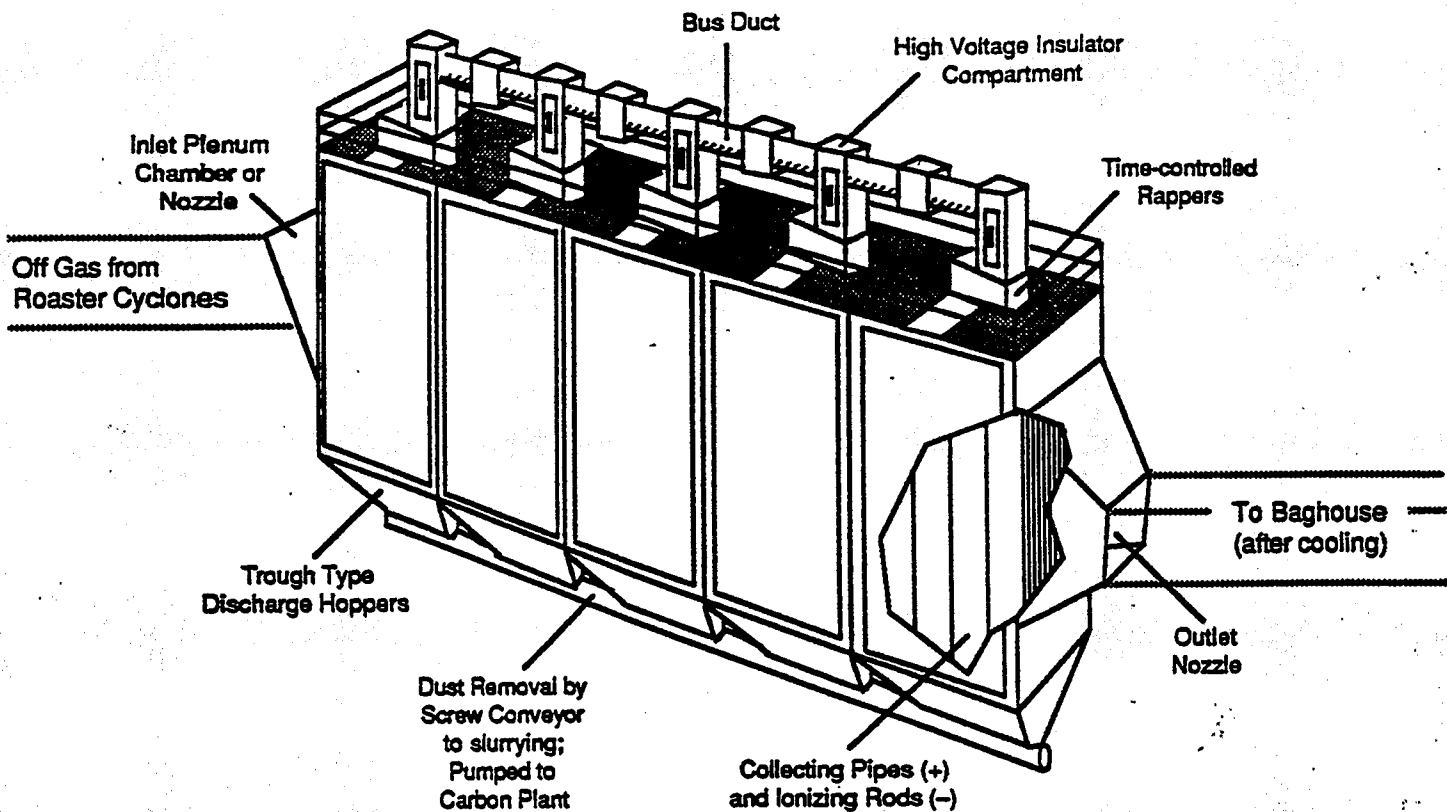


## Cottrell / Baghouse Operation



**Precipitator Sections**

1	1A	2	2A	3	3A	4	4A
#1 section		#2 section		#3 section		#4 section	

**Figure 1: COTTRELL ELECTROSTATIC PRECIPITATOR AND SECTION ARRANGEMENT**

- The collected dust is dislodged from the collecting electrodes (by means of vibrators and rapping hammers) and falls into V-shaped hoppers in the bottom of the precipitator sections.
- From the hoppers, the (gold laden) dust is conveyed to quench tanks where it is mixed with water before being pumped to the 30' thickener tank in the Carbon Plant.

## Cottrell / Baghouse Operation

### Baghouse Circuit

- Tail gas from the precipitators is drawn through the Cottrell flue (where it is cooled to 225°F with outside damper air) into the Baghouse (see Figure 2: BAGHOUSE).
- Draylon cloth filter bags collect the condensed arsenic trioxide dust in the Baghouse (the arsenic trioxide contained in the precipitator tail gas condenses on cooling).

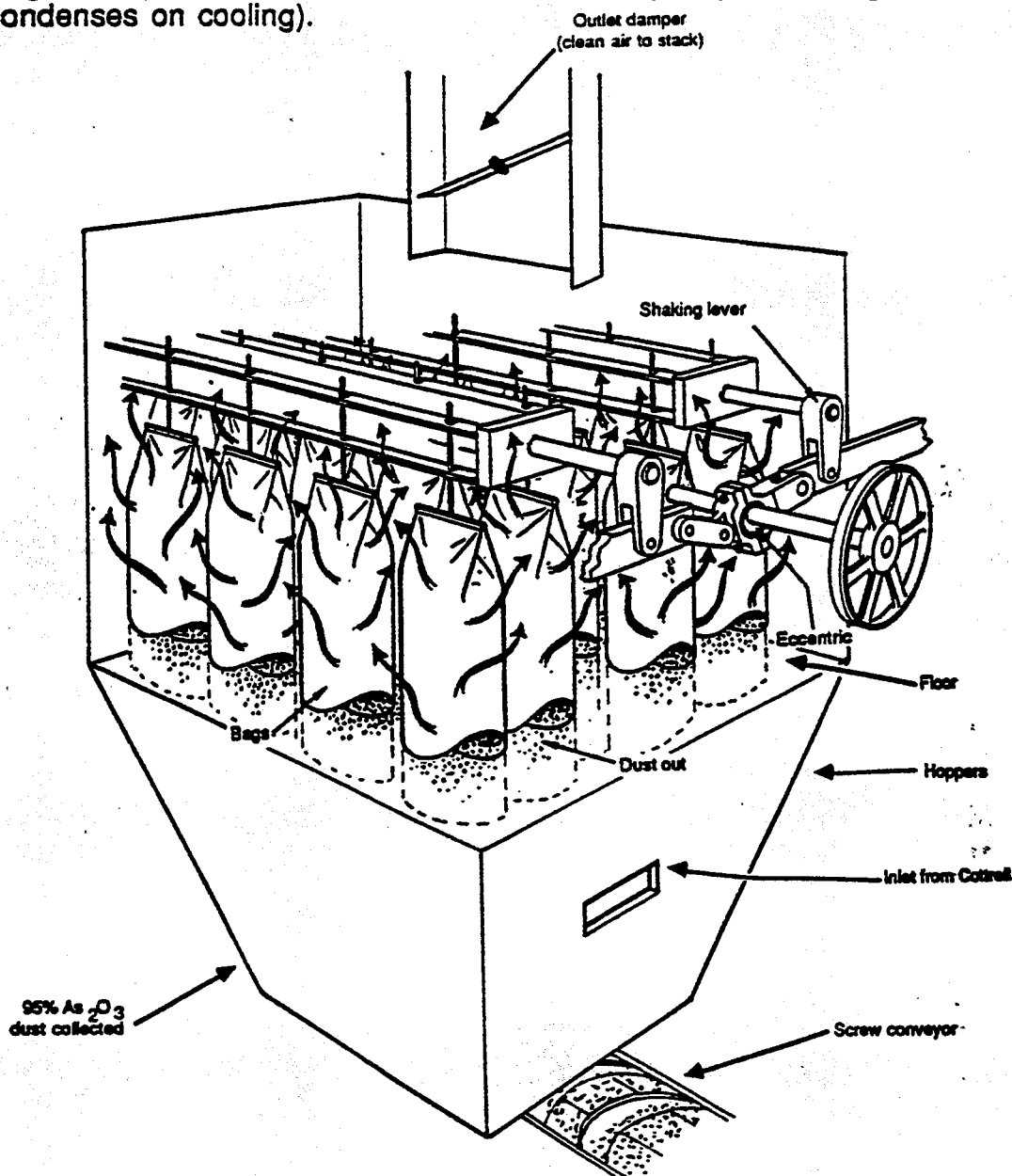


Figure 2: BAGHOUSE

## ***Cottrell / Baghouse Operation***

- Pressure drop activated shakers dislodge the arsenic trioxide dust from the bags. The arsenic trioxide dust falls into hoppers in the bottom of the Baghouse.
- Cross conveyors carry the dust from the hoppers to the Fuller Kinyon pneumatic conveying pump.
- The Fuller Kinyon pump (equipped with a Fuller air blower) pumps the dust to underground storage stopes or to the arsenic silo for truck loading (see Figure 3: FULLER KINYON DRY ARSENIC PUMP to identify the Fuller Kinyon pump operation). Return air enters the flue at the Cottrell fan.
- The stack fan draws cleaned tail gas from the Baghouse to the stack and discharges the cleaned gas into the atmosphere.

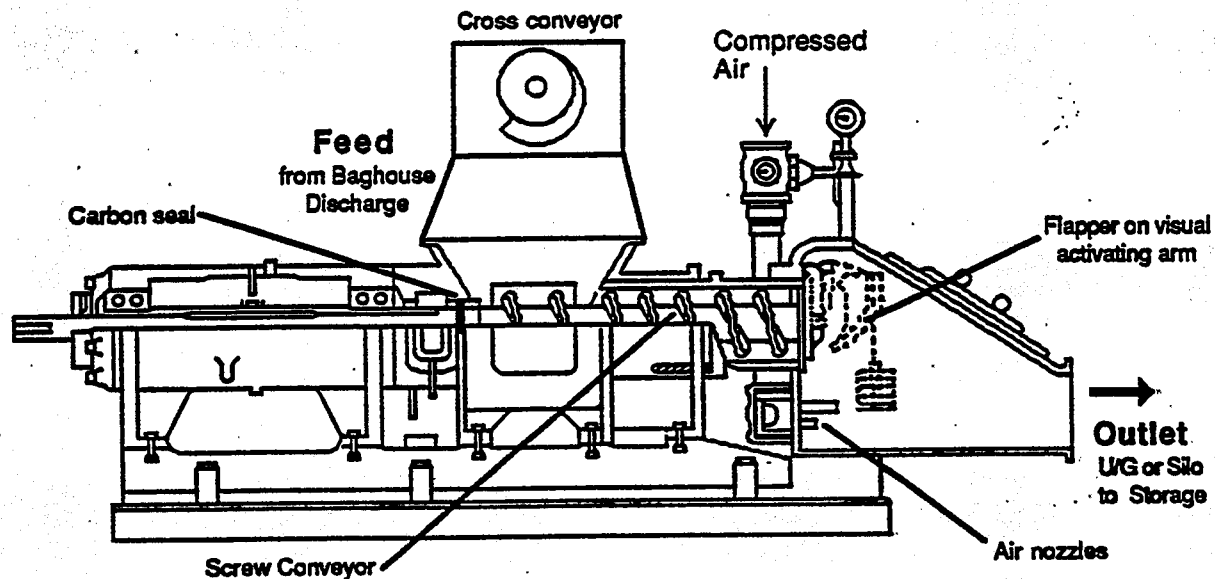


Figure 3: FULLER KINYON DRY ARSENIC PUMP