

HYDROBLAST EFFLUENT RECOVERY SYSTEM

2019 NWIBRT Innovation Reward Recipient



AN ASRC INDUSTRIAL COMPANY

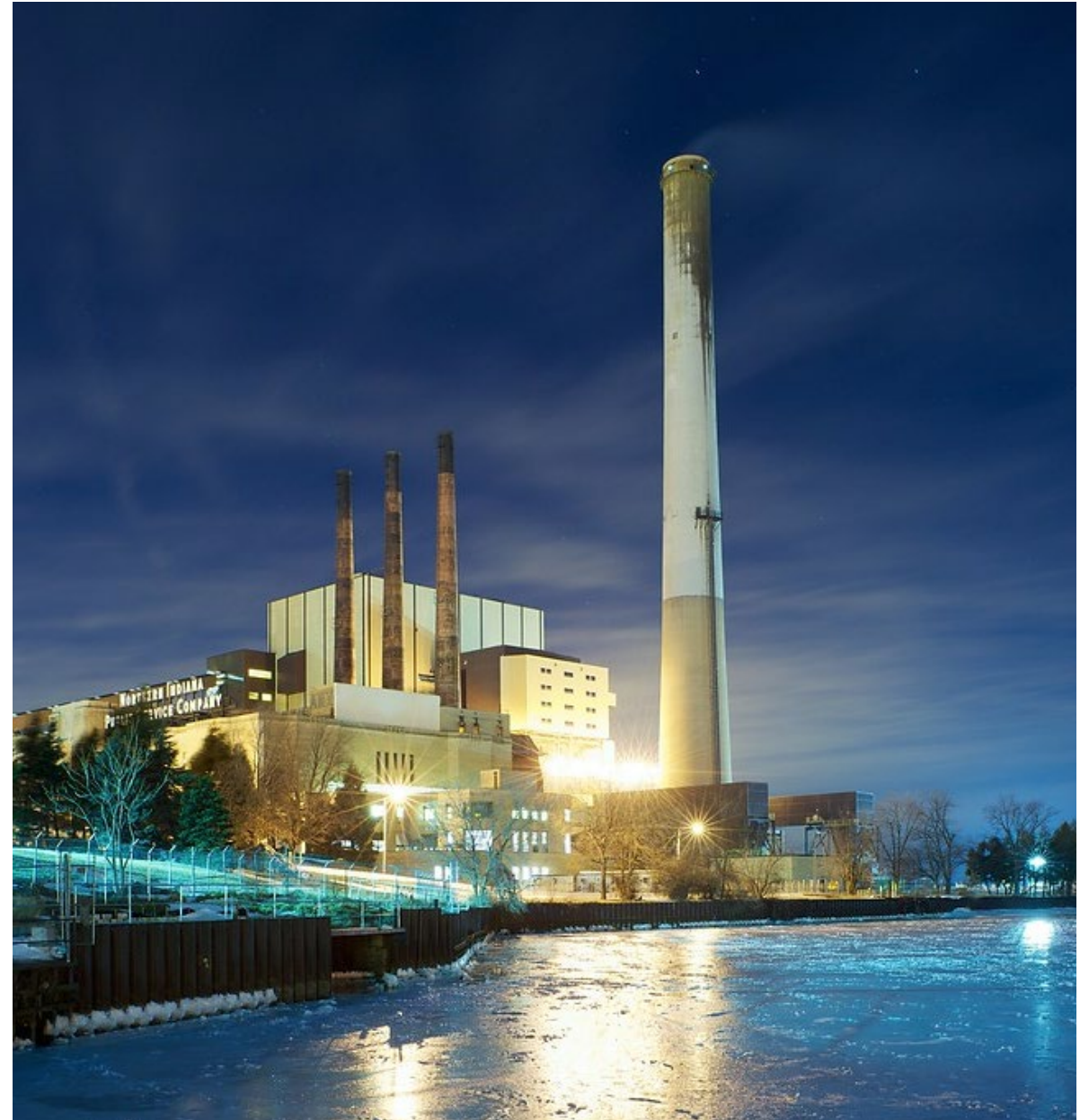
BOILER INTERNAL WASH

Project Description:

High pressure blasting of boiler to remove fly ash.

Project Details:

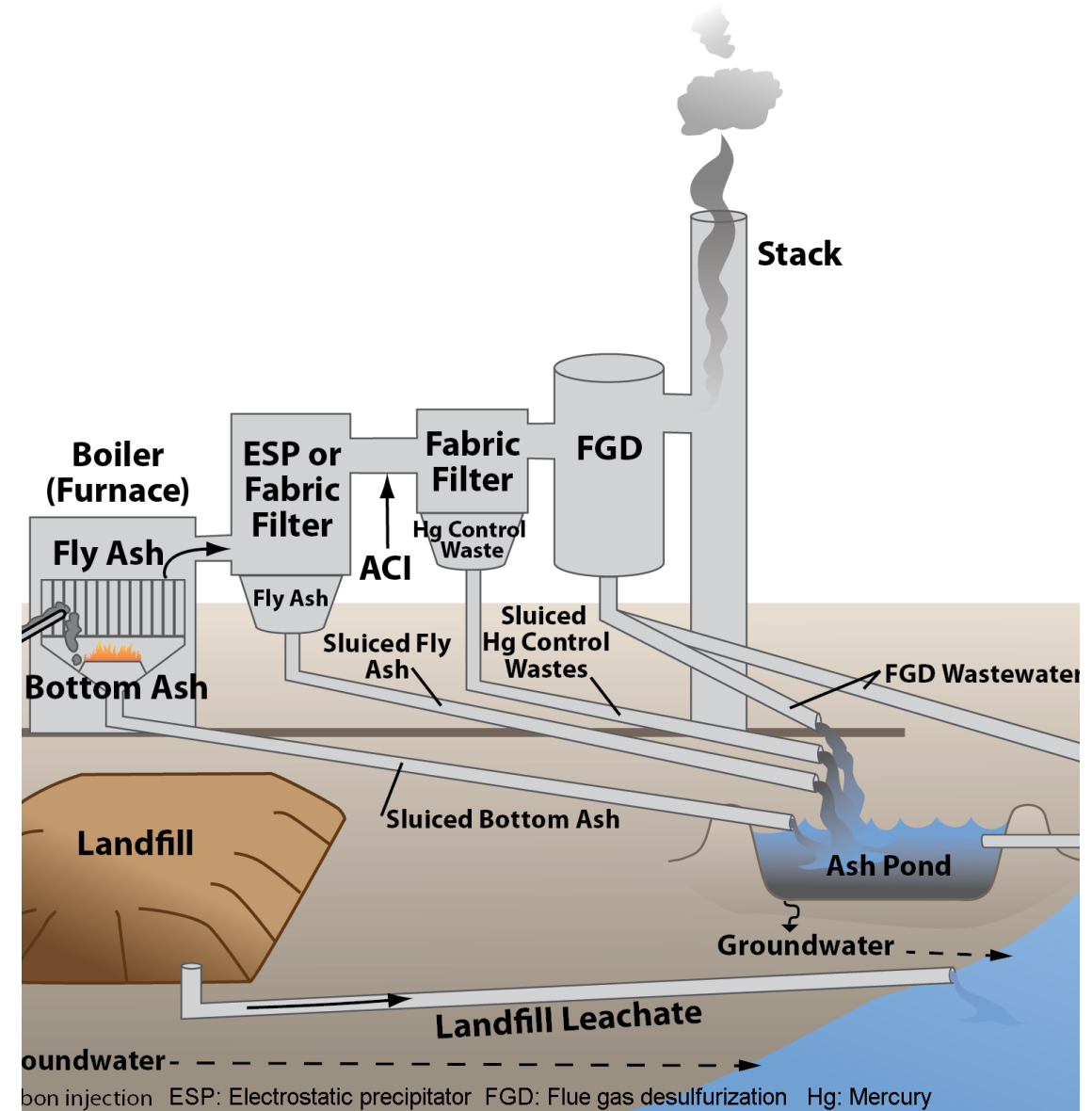
- 24/7 blasting operation for 7 Days
- 200–500 GPM of water volume
- 10,000–20,000 PSI pressure
- Approximately 4.6M gallons of water used, treated and released



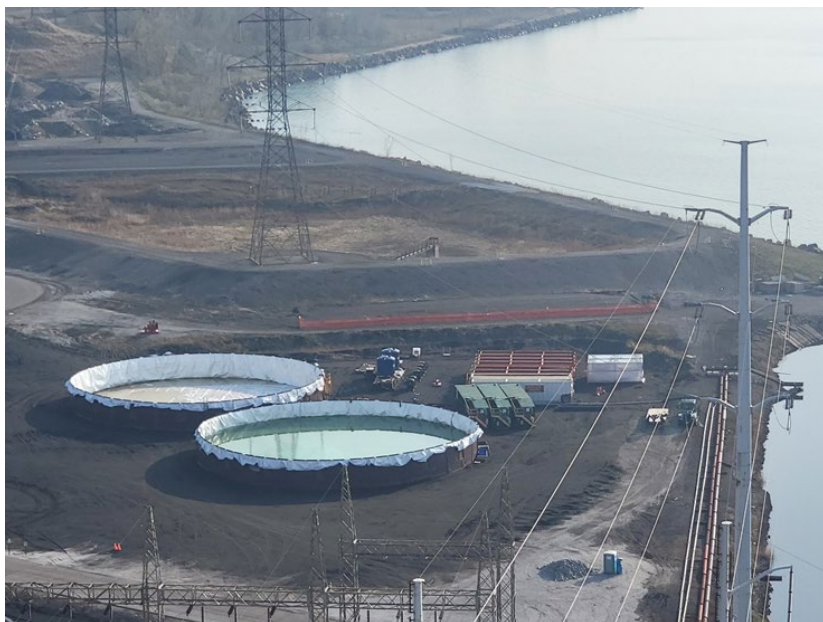
EPA CCR RULE (2015)

Coal Combustion Residuals Rule

- Promulgated under Resource Conservation & Recovery Act (RCRA)
- Regulated disposal and discharges from coal fired power plants
- Prevent migration of hazardous constituents to water infrastructure
- Groundwater protection criteria under Clean Water Act (CWA)
- Limitations on ash pond discharge

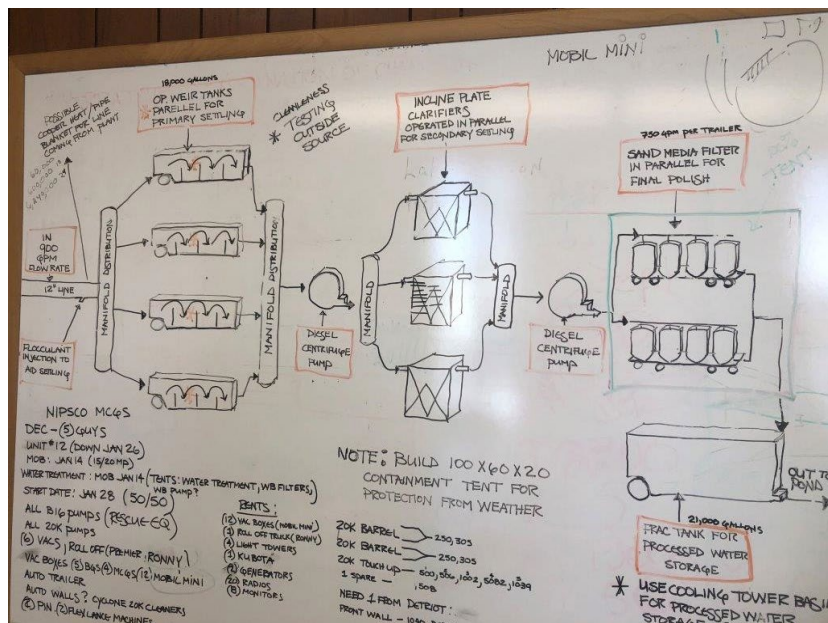


Source: US EPA

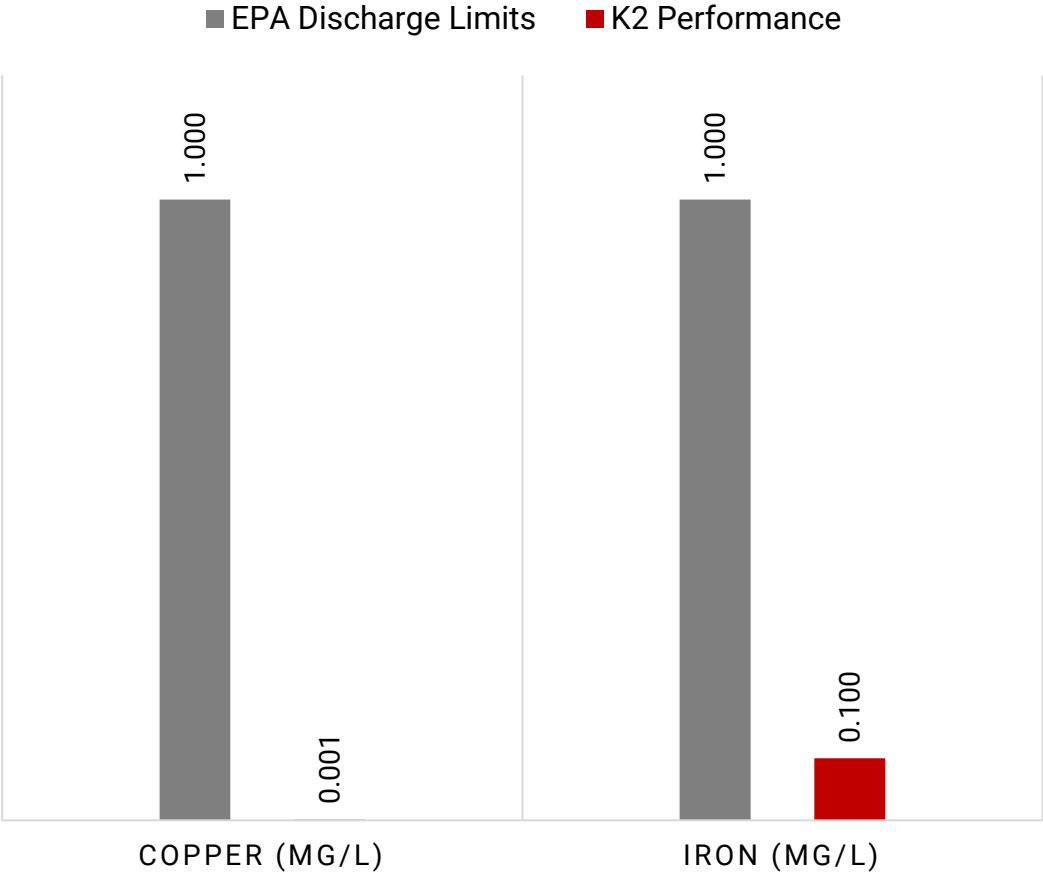


EFFLUENT RECOVERY SYSTEM

- Mobile water treatment system
- Remotely located for outage logistics
- Engineered tie-ins to existing infrastructure
- Two 1.1M Gal portable storage tanks
- Multi-stage settling and filtering process
- Up to 900 GPM wastewater processing capacity
- Leveraged continuous operating capability



DISCHARGE BELOW CLEAN WATER ACT LIMITS



VALUE-ADDED, ENVIRONMENTAL SOLUTION



- Efficiency gains from closed loop w/ existing infrastructure tie-ins.
- Eliminated of personnel exposure to hydroblast and vacuum systems.
- Reduction of project labor and waste disposal costs.
- Protection of our environment.





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