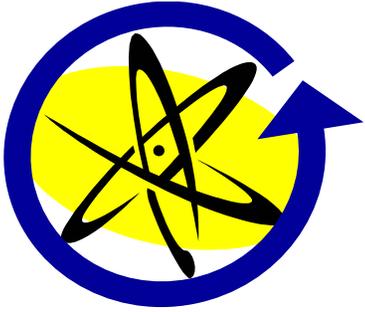


# ***Fixatives Used for Contamination Control at Hanford***

***Presented by Greg Perkins***

***Fluor Hanford Radiation  
Protection Director***

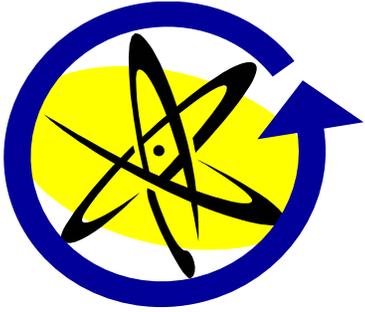


# Presentation Objectives

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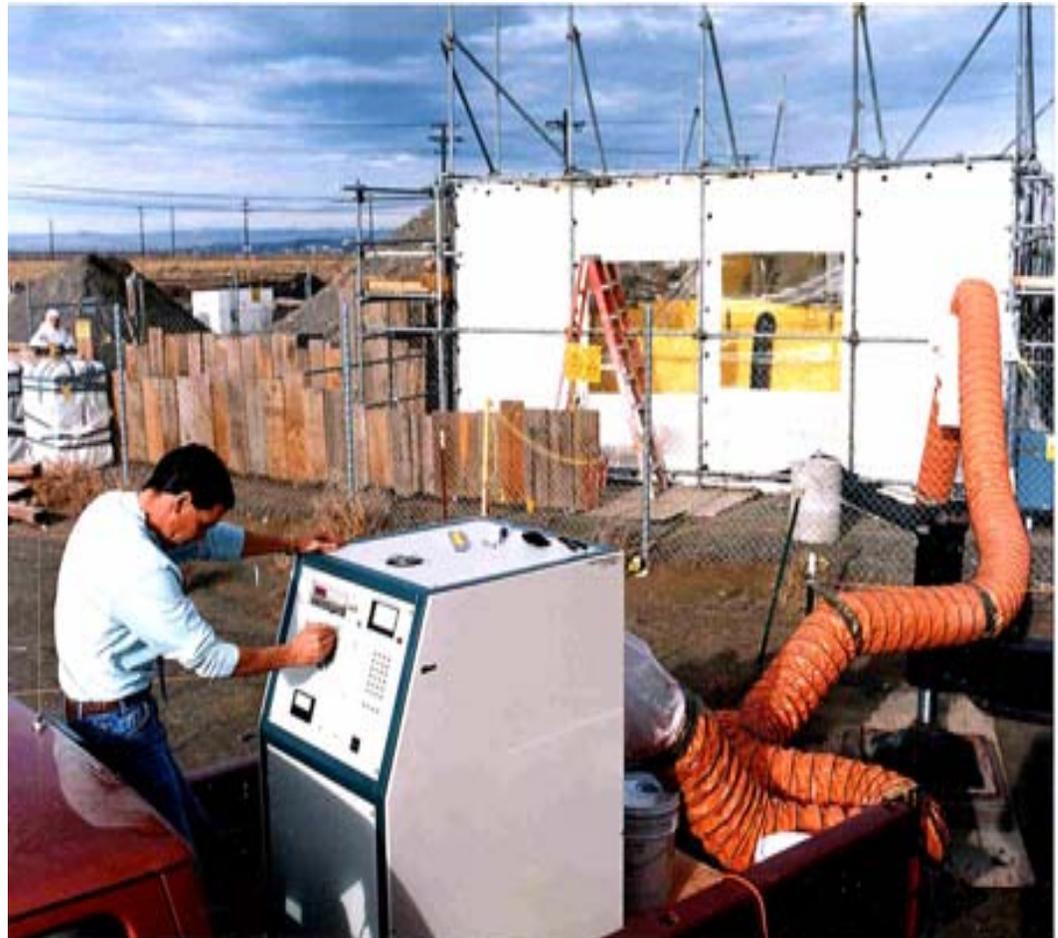
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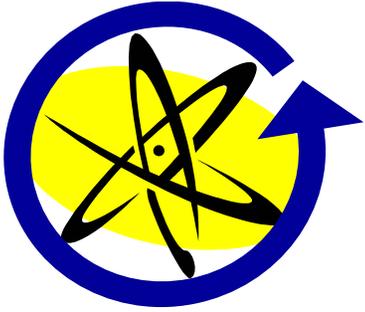
- Identify Contamination Control Fixatives Used at Hanford
- Discuss How the Fixatives May be Used and Applied
- Provide Some Actual Applications at Hanford
- Provide Fixative Procurement Information



# Application of Fixatives

- Aerosol fogging allows fixative to be applied without entering the space.
- Sound waves striking the liquid become an aerosol that fills the room or glovebox leaving a tacky glycerin coating.

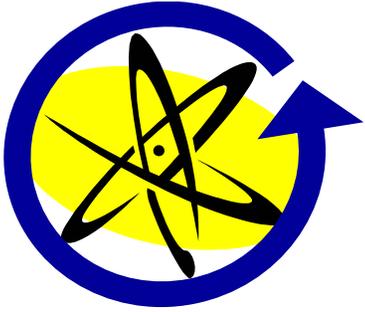




# Fixatives (Polyurea)

- Polyurea coatings seal the surface and trap contamination.
- Polyurea is similar to polyurethane coatings sprayed into pickup beds, only stronger.

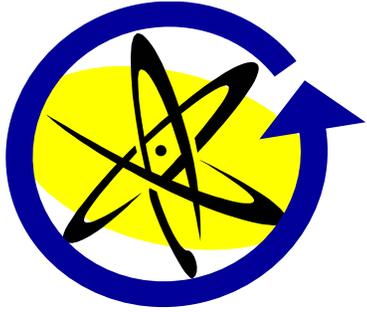




# Fixatives (Barrier Systems)

- Acrylic Paint, Polymeric Barrier System, and FEVDI fixatives are being sprayed/brushed.
- Dust suppressants are used to prevent contamination spread.

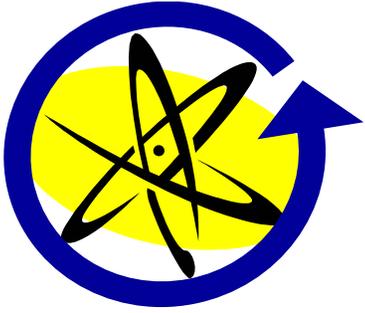




# Fixatives (Old Product – New Use)

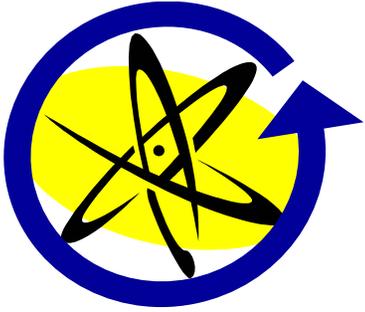
- “Rust Doctor” was used to fix contamination inside a large, rusty tank.
- When applied, the product converted rust to black magnetite.
- During the conversion, the loose contamination became fixed.





# Dump Tank During Demolition



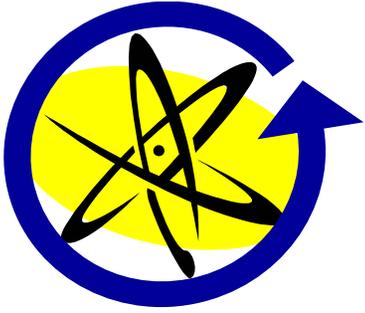


# Misting Head

- Applying water mist to suppress dust has been used often. It also works to suppress airborne contamination.

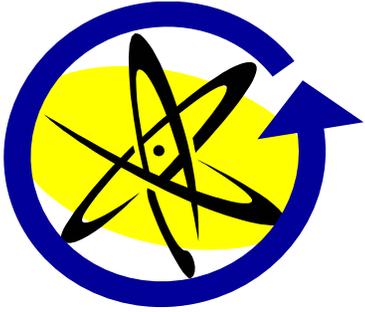
*Low water usage. Wets the dust in the air —not the product!*





# Mist Applied Directly to Nibbler

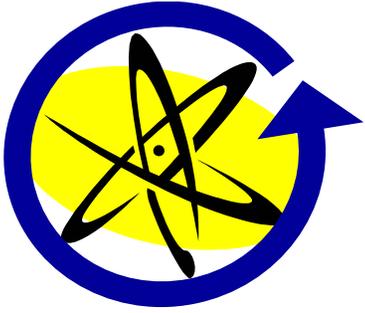




# Major Misting

- Fog Cannons apply a larger volume of mist and can be adjusted remotely if wind changes or equipment is repositioned.
- See [www.martin-eng.com](http://www.martin-eng.com)





# Open Air Demolition of Hanford's 233S Facility

