Abrasive Service/ Entrained Solids/ High Temp References:

1. Job 0112 (2) 1"- 2500# -- Titanium Dioxide @ 1650 F
   DuPont/ Tennessee, USA (14 years)

2. Job 0120 4",8", 10"- 2500#-Amine @5000psi 800 F
   Badger Engineering / Natref Refining (SASOL)
   South Africa

3. Job 0134 1",3",4"- 900# -- PFBC (Pressurized Fluidized Bed Combustion) @500 F Dow Chemical / Destec Energy
   Indiana, USA

4. Job 0150 6" - 300# -- Alumina Catalyst Service
   Cipsa / Pemex Refinery / Monterrey, Mexico

5. Job 0155 2"-600# -- PFBC of pulp mill residue@ 700 F
   Kavaerna / Finland

6. Job 0166/0245
   2"- 600# -- Biomass Digester/ handling biomass sand, silica, and small stones. (high cycles)
   Colorado, USA

7. Job 0232/0298/0323/0377
   2"- 600# -- Polypropylene Reactor letdown switching up to 7 times per minute.
   Formosa Plastics/ Point Comfort, Texas USA

8. Job 0265 6"- 300# -- Black Liquor Valves/ Pulp & Paper
   Finch Pryne / New York USA

9. Job 0275 (48) 1"- 300# -- Iron Carbide@ 1200 F / KHI Process Iron Ore Reduction (6 Years)
   Qualitech Steel Corp/ Corpus Christi, Texas USA

10. Job 0312 8"- 150# -- Aluminum Silica/ cycles once every six hours
    Albmarle / Houston, Texas USA

11. Job 0301 1"- 300# -- Lime Slurry
    Sterling Chemical/ Texas USA

12. Job 0317 / 0318 / 0319 / 0596 / 0674 / 0717 / 1073
2"- 12"- 600# & 900# -- Produced Water with Iron Sulfite & Sulfur deposits (0.065" per month)
Burlington Resources/ Lysite, Wyoming USA

13. Job 0329 ¾" - 2"- 4500# -- Sandy Crude
Parsons / Arco / Venezuela

14. Job 0306 / 0355 / 0356 / 0357
3"- 6"-600# -- Steam @700psi w/ Coke particles 650 F
Fluor Daniel/ Irving Oil/ Saint Johns, Canada

15. Job 0322 / 0339 / 0340 / 0360 / 0773
¾" - 4"- 2500# - Malaic Acid forming Salt Crystals
Black & Veatch / BP Amoco/ Lima, Ohio USA

16. Job 0501 12"- 600# - 800 F High Velocity Coke Particles
NOX Reduction System / Furnace Isolation
Texas City, Texas USA

17. Job 0517 2"- 16"- 300#- 600# -- High Temp Particles
BASF/ Beaumont, Texas USA

18. Job 0606 10"- 900#-- Black Water/ Syngas / abrasive coke particles @ 600 F
Motiva / Delaware City Refinery USA

19. Job 0639 ¾" - 2"- 300# -- abrasive Catalyst@ 800 F
gas to liquids plant
Howe Baker/ Conoco Phillips

20. Job 0673 8"-600# --FCC unit recirculation of Alumina based catalyst@ 1400 F (4 years)
KBR / Sun Refinery/ Philadelphia, Pennsylvania USA

21. Job 0694 (4) 6"- 300# -- FCC/ Alumina Catalyst@ 900F-1250F
Pemex / Mexico

22. Job 0683 4"- 300# -- Digester Blow Valves/ Pulp & Paper
Weyerhaeuser / Washington USA

23.Job 0747/0754
1"- 4"- 600# - 1500# – Nickel Catalyst/ Sorbital Plant
Corn Syrup Process
New Jersey USA

24.Job 0757 18"- 900# – Syngas from Coal Gasification@ 500 F
Tennessee Eastman/ Tennessee USA

25.Job 0781 2"- 6" - 600# - 1500# – High Temp Particles
ABB / Seeco / China

26. Job 0833 6"- 600# – Natural Gas with Heavy Sand Loading
Total Fina/ Texas USA

27.Job 1043 8"- 900# – Fractionator Bottoms Isolation Valve
Heavy Coking
TPI Petroleum /Valero/ Ardmore Oklahoma USA

28. Job 1069 6"- 900# – Syngas / Slurry with Coke Particles
Premcor / Deleware

29.Job 1050 8"- 10"- 2500# – Hot HC gas@ 750 F
Qatar

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