Click Here for Independent Report by Jenike & Johanson Incorporated (Password Protected, please call (740) 373-2822 for login.

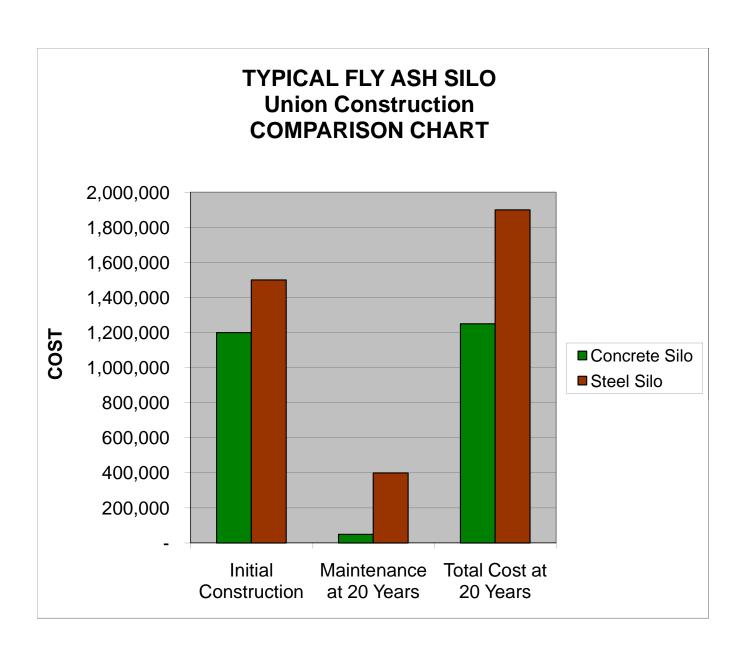


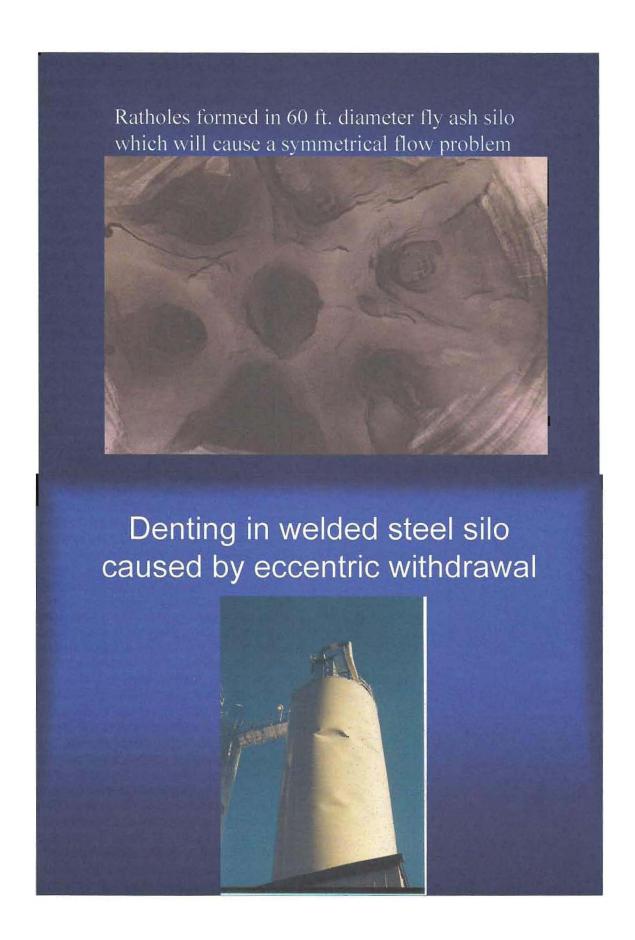
## Advantages of Concrete Silos Over Metal Welded or Bolted Silos

- Concrete silos are typically lower in cost than metal silos.
- Concrete silos have good resistance to corrosion. This includes both corrosion of internal walls due to the stored bulk solid and also external corrosion caused by moisture. Metal corrosion is a well known problem.
- No need for expensive painting of silos due to corrosion thus lowering operational cost.
- There is no concern about electrolytic effects at welds or liner connections.
- Careless detailing of metal walls may leave inward facing ledges or welds, which can obstruct flow and increase wall pressures. This is avoided with concrete.
- Concrete is better able to resist abrasive wear than most metals.
- Concrete is more robust and thus better able to withstand internal pressure loads and impact loads.
- Concrete has higher wall friction angles with most bulk solids than most metals. This results in higher frictional drag down the cylinder walls and hence lower pressures acting normal (i.e. perpendicular) to cylinder and hopper walls.
- There is no concern about weld quality or stress risers, such as bolted connections.
- There is no concern about leakage to the environment, which can be a problem when storing fine powders in bolted silos.

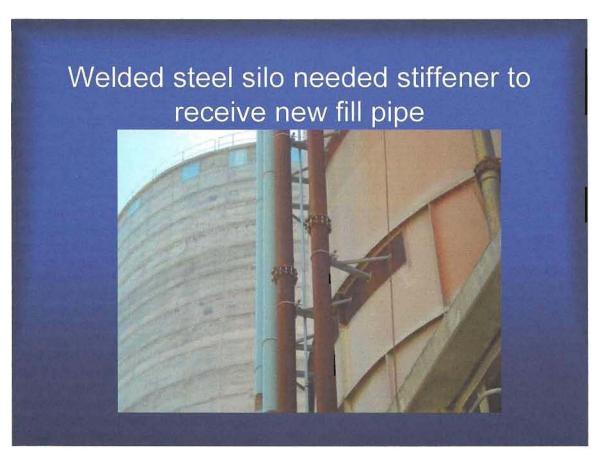
## Conclusion: Concrete always beats steel!

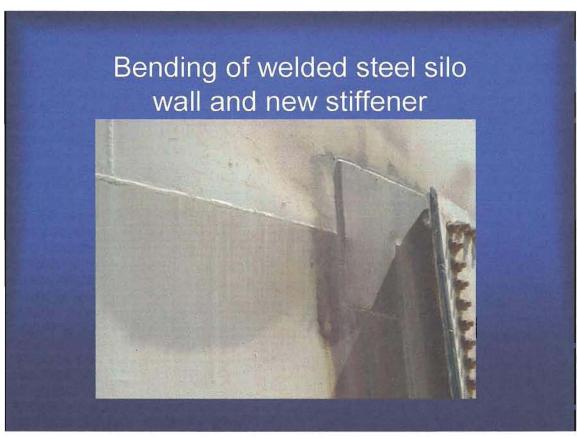
For further information or lunch and learn presentations contact Marietta Silos 740-373-2822 or visit <a href="www.MariettaSilos.com">www.FlyAshSilo.com</a>





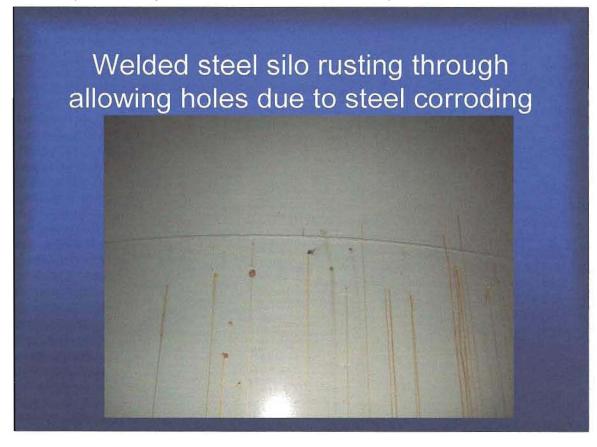
Above photos courtesy of Jenike & Johanson, Inc. Used with persmission.

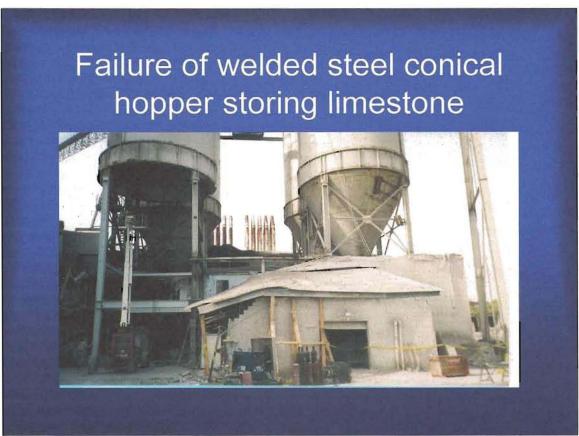




## Corrosion just above hopper/cylinder junction that caused hopper to drop off

Above photo courtesy of Jenike & Johanson, Inc. Used with permission.





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