Tube lining system

- For the internal protective coating of heat exchanger and condenser tubes along their entire length
- 100% solids; no solvents; no odour materials
- On-site application



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Unique system for on-site application

Why line tubes?*

While coatings on condenser or exchanger tubes will not last as long as retubing (5-10 years vs. 20 years), they have their place in the overall operations and maintenance schedule and options portfolio.

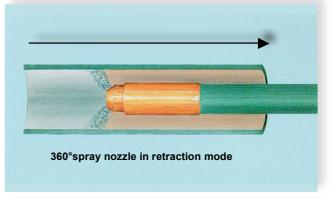
- First the coating operations can be done in a typical outage turnaround cycle and the costs run in the range of ca. 30 - 40% of those of retubing. (For a 750 MW unit, 40'000 12 m tubes, lead time 45 days, implementation ca. 3 weeks).
- If your plant or units tubing does not have 20 years remaining life, the down tube coatings option becomes the most viable economically.
- If your unit does need and warrants a full retube but you need to buy time to budget, engineer, or make it to a turbine outage four years away; full or partial down tube coatings may be an option to avoid operation unavailability and leaks.
- If one water box of two or four is limiting your performance capabilities, the tubes in this box can be coated to extend life to a full retube opportunity.
- If fouling is a problem requiring large maintenance expenditures, coating tubes should be considered as a viable alternative to continued high operating costs.
- Often, we are driven by discharge permit limits.
 Copper has become a source of problems for many industries. Down tube coatings eliminates almost all Copper discharge. (About 3kg/yr/MW).

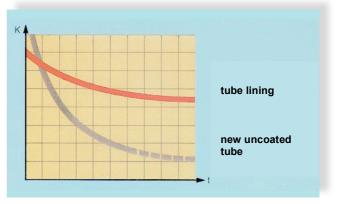
The technology and services to conduct full-length tube coatings are available.

*Reference:

Article in JPCL Magazine Nov. 2005 "Coatings in Power Plants" by Bruce Woodroff CorrCoat Consulting former Senior Coatings Expert with FPL and Progress Energy,







Tendency for reduction in heat transfer values for coated and uncoated tubes