



## Case History 549

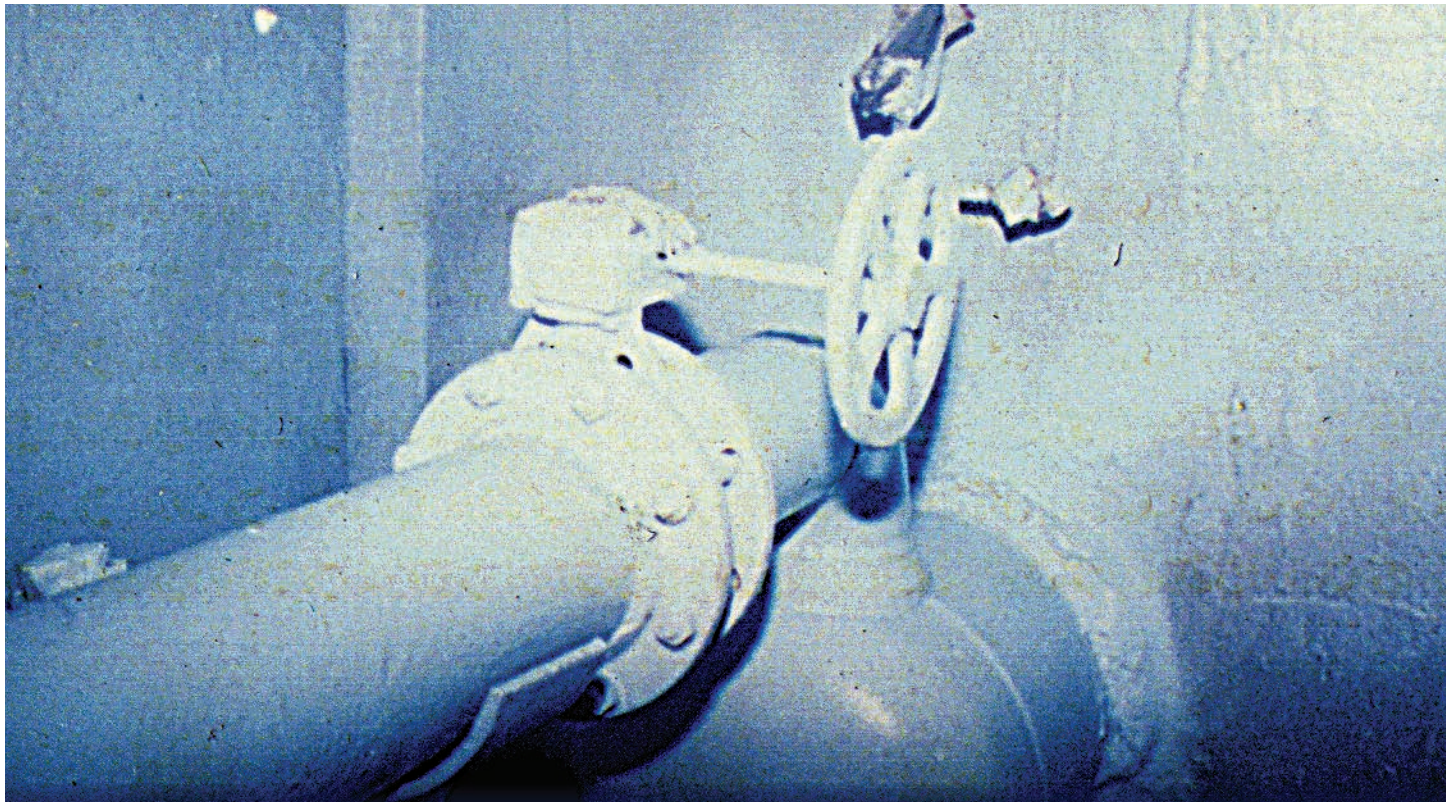
### *Utility Vaults Infiltration*

One of the five largest utility manufacturers in the United States, Consolidated Edison Company of New York, was experiencing severe infiltration in their high pressure gas regulation vaults. Environmental concerns with respect to proper testing and disposal of the infiltrating fluids that included water, oil, gasoline and sewage; as well as the internal corrosion on equipment and sensitive instrumentation housed in these vaults - prompted ConEd to seek out a permanent solution to the infiltration problem.

After considerable research by ConEd and a demonstration by Raven Lining Systems, PIM Corporation, a Certified Applicator, was contracted to rehabilitate and waterproof these vaults using Raven epoxy products. The walls and

floors of the vaults are high pressure water blasted (5,000 psi) to remove all contaminants and unsound concrete. Cracks and voids are opened up and repaired, using hydraulic cement and epoxy grouts. Raven 404 ultra high build epoxy coating was then spray-applied at an average thickness of 125 mils to permanently seal and protect the concrete structure. In some vaults, exposed steel was also sandblasted and protected with 40-60 mils of Raven epoxy.

ConEd remains pleased with the work being performed by PIM and success of the Raven System in eliminating it's infiltration problem and continue to specify Raven products experiencing infiltration and corrosion problems.



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