



Our customer's plant was losing water, heat, and power and needed a solution to return condensate to the powerhouse. Piping & Equipment, along with Spirax Sarco, partnered with the plant to identify, plan and purchase three condensate pump packages with the required GPM flow of #3-CP-01 @ 28 GPM, #3-CP-03 @ 75 gpm, and #4-CP-01 @ 20 GPM. The plant now reports that the pumps are working well and savings have been calculated based on the amount of condensate to be returned (5,000 lb./h) the annual operating hours (4,000 hr/yr.) total water cost (.005 per gal) preheating required of the makeup water, steam cost, and savings of steam. Total savings came to \$11,990.41 (in water savings per year) + \$13,000 (savings of steam for pre-heating makeup water per year) + \$300.00 (cost of steam to pump condensate per year) for a grand total of \$24,690.41 X 3 (number of pump packages put into service) = \$74,071.23 less credit for cost of units deducted (\$16,000.00) Approved savings is: \$58,071.23 as a cost reduction in year one and the same amount is pre-approved as cost avoidance for remaining years of life (9 additional years).