Comparison of vertical and horizontal steam generators  
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Details:

The objectives of this project are to size and rate nuclear steam generators [1] using HTRI Xchanger Suite software (htri.net/htri-xchanger-suite) and make comparative assessments of vertical and horizontal configurations. North American steam generators are typically vertical, but there is current interest in horizontal steam generators to reduce building heights and construction costs that dominate the overall cost of new nuclear power plants [2].

Pre-requisites: Previous courses on heat transfer and fluid mechanics. If you are interested in this project, also consider taking the course MIE1132H “Heat Exchanger Design”.

References:

https://librarysearch.library.utoronto.ca/permalink/01UTORONTO_INST/14bjeso/alma991106826953906196

https://librarysearch.library.utoronto.ca/permalink/01UTORONTO_INST/fedca1/cdi_elsevier_sciencedirect_do 10_1016_j_joule_2020_10_001

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