Thinning Rate Assessment Near PHT Headers – A Proposal to Eliminate Wall Thickness Inspection Near Headers in Future Feeder Periodic Inspection Plan

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Abstract:
The purpose of this paper is to perform a wall thinning assessment of past PIP inspections near the PHT headers at Pickering stations. This includes the evaluation of thinning rates; and the comparison of projected wall thickness against acceptable values at the area. The assessment shows strong evidence that wall thinning near headers is insignificant and fitness for service to the end of life to a large margin. This paper proposes that a revised PIP to exclude wall thickness inspection near headers for Pickering feeders in future outages in order to optimize UT inspection scope and resources while maintaining meeting CSA 285.4 objectives and requirements.

Keywords: Ultrasonic Testing (UT), Other Methods, PHT header, PIP, wall thinning, feeder