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**Fossil Fuel Power Plant
Compensated Differential Pressure Based
Drum Level Measurement**

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Fossil Fuel Power Plant Compensated Differential Pressure Based Drum Level Measurement

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ABSTRACT

This Technical Report supplements ISA77.42.01, *Fossil Fuel Plant Feedwater Control System-Drum Type*, and provides recommendations for level measurement in boiler steam drums. Specifically, the use of differential pressure transmitters for drum level measurement in a power plant boiler drum is described. The need for compensation for density changes is explained and equations for the proper compensation are derived.

KEYWORDS

Measurement, Level, Differential Pressure, Steam, Drum, Compensation, Density.