

## Oman India Fertiliser Company S.A.O.C.

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الشركة العمانية الهندية للسماد (ش.م.ع.م.)

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We would like to share our experience related to our recent usage of APRIS on two equipment in our plant. Heat exchangers play a vital role in our operations and as a part of preventive maintenance we planned to inspect two major heat exchangers. One is condenser and other is reboiler. Though two equipment were tested with eddy current technology, we were quite interested to look at the performance of APRIS.

The operator who handled APRIS gave us an impression that its too simple to use. The preparation time was too minimal. The hardware which is a probe gets connected to normal laptop on which software was loaded. The mapping of heat exchanger with 900+ tubes was done in few minutes and started taking the measurement immediately.

The speciality of technology is 'it can inspect any tube material and shape in ten seconds'. Our condenser and reboiler tubes are U type and they inspected only from top. However, we were able to see the signals recorded for the whole tube including the bend area. The specialist on APR technology did a quick pre analysis and informed that there were holes which matched with our pneumatic testing and wall loss matched with eddy current report. The precise location and size of the defect is also an advantage with this product. APRIS shall add more value to the plant during shutdown or turn around when inspecting complicated shapes of tubes (U type, fin type, D type boiler) and 100% inspection in a short duration.

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