

# INTERFACE IN THE FIELD

## DOWNSTREAM OIL & GAS

LEVEL MATTERS IN SEPARATOR BOOTS TO INCREASE PRODUCTIVITY AND PREVENT FAILURES IN DOWNSTREAM EQUIPMENT

### EVERY BOOT MATTERS

Ineffective boot interface measurement in the refinery can lead to reduced productivity, process inefficiencies and catastrophic equipment failures



## CHALLENGES

Light liquid

Light liquid outlet

Heavy liquid

Without reliable interface measurement undesirable liquids may be passed downstream

#### WATER CARRYOVER

If water enters distillation columns or other high-temperature units it will rapidly flash and may damage trays or other parts



#### HF ACID CARRYOVER

If HF acid proceeds downstream it can corrode stainless steel piping, valves, fittings and instrumentation



#### HYDROCARBON EXTRACTION

If hydrocarbon process liquids exit the boot it will diminish efficiency of water treatment and may plug screens or filters downstream



# \$550K/HR

## COSTS

Costs can reach \$550K USD per hour to have a distillation column down (based on the size of the refinery) and it may require days to bring it back up

## SOLUTION

Light liquid

Light liquid outlet

Heavy liquid

Reliable interface measurement ensures the right liquid is going to the right location

#### TIGHTER CONTROL

Magnetrol® level devices track from 0% through 100%, even for smaller vessels (shorter spans); this eliminates dead zones or blind spots



#### REDUCED COSTS

Better level measurement in boots safeguards against considerable costs due to failures in downstream equipment



#### ENHANCED SAFETY

Reliable measurement mitigates potentially catastrophic failures in distillation columns or other high-temperature units



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