

Heavy Hydrocarbon

Dilution + Displacement

Degassing + Cleaning

Procedure by

EC 9010 and EC 9008



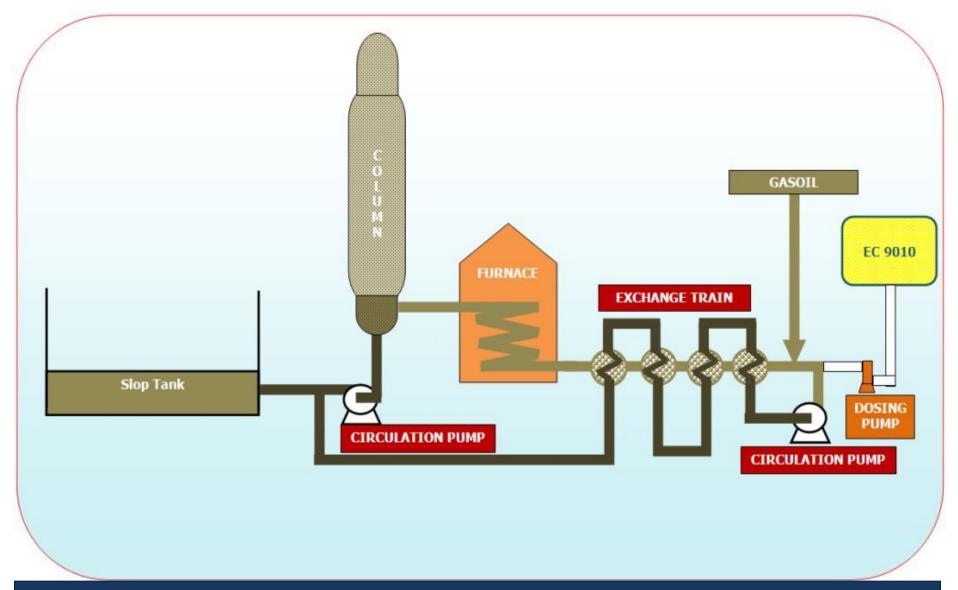


Dilution and Displacement Heavy Hydrocarbons using Gasoil with



Nalco EC 9010 additive

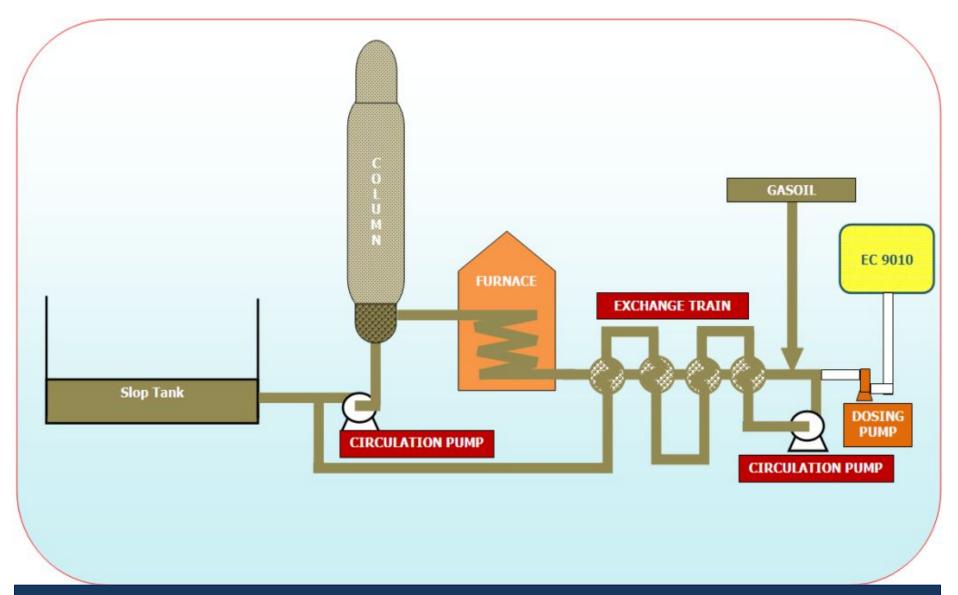
FLOW DIAGRAM SHOWING - GASOIL CIRCULATION BEGINNING







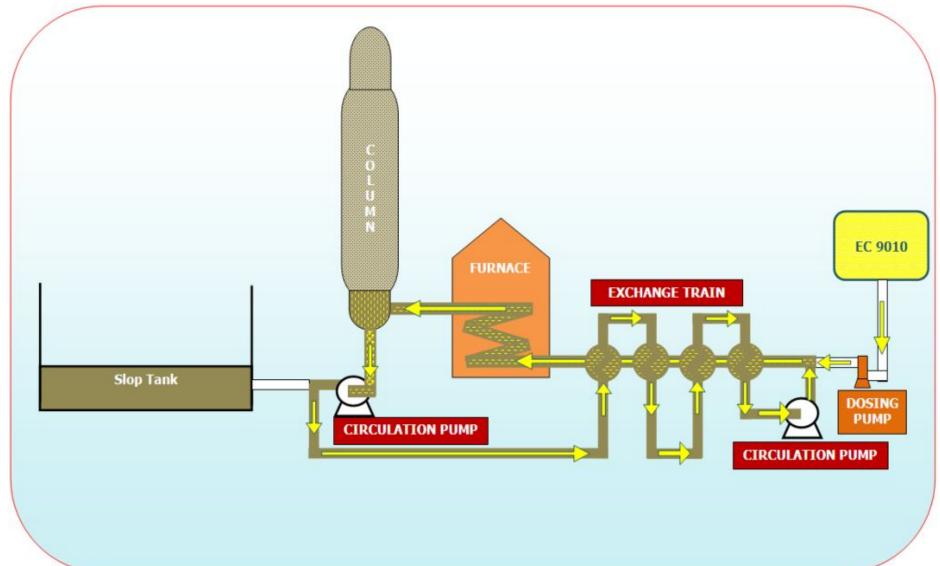
FLOW DIAGRAM SHOWING - COMPLETE GASOIL CIRCULATION







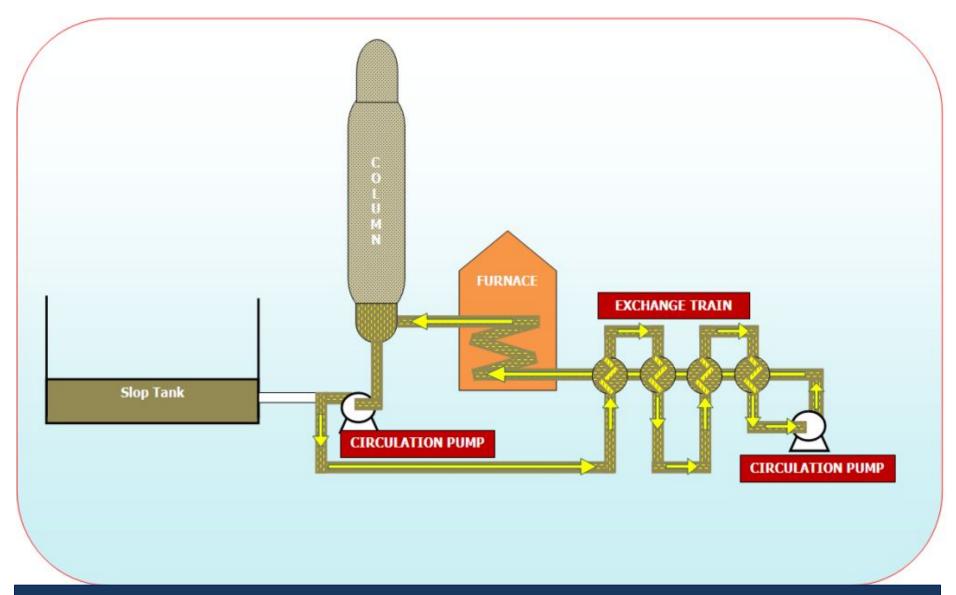
FLOW DIAGRAM SHOWING – GASOIL CIRCULATION WITH EC 9010 DOSAGE







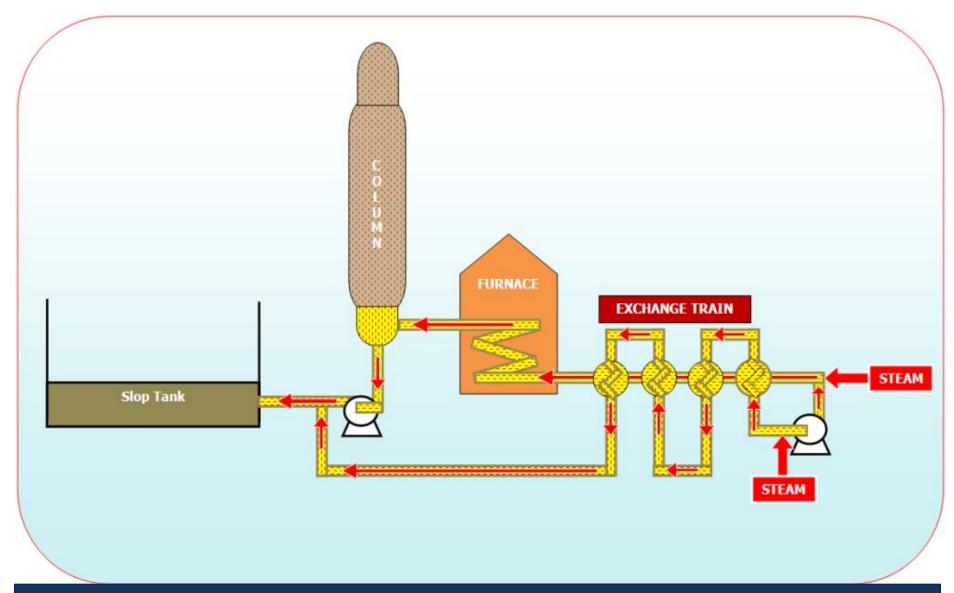
FLOW DIAGRAM SHOWING - GASOIL CIRCULATION WITH EC 9010







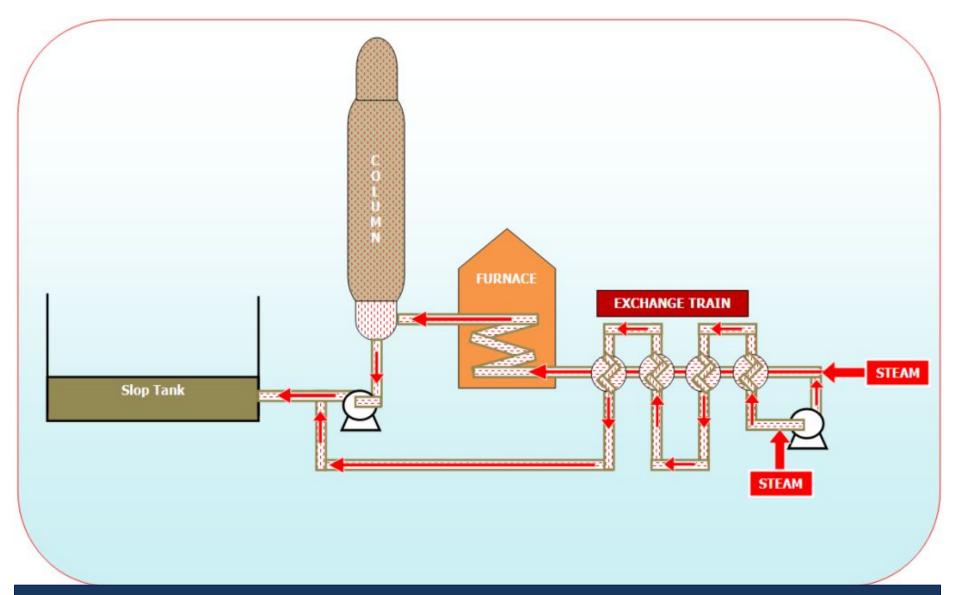
FLOW DIAGRAM SHOWING GASOIL DISPLACEMENT BY STEAM







FLOW DIAGRAM SHOWING - CIRCUIT GASOIL FREE





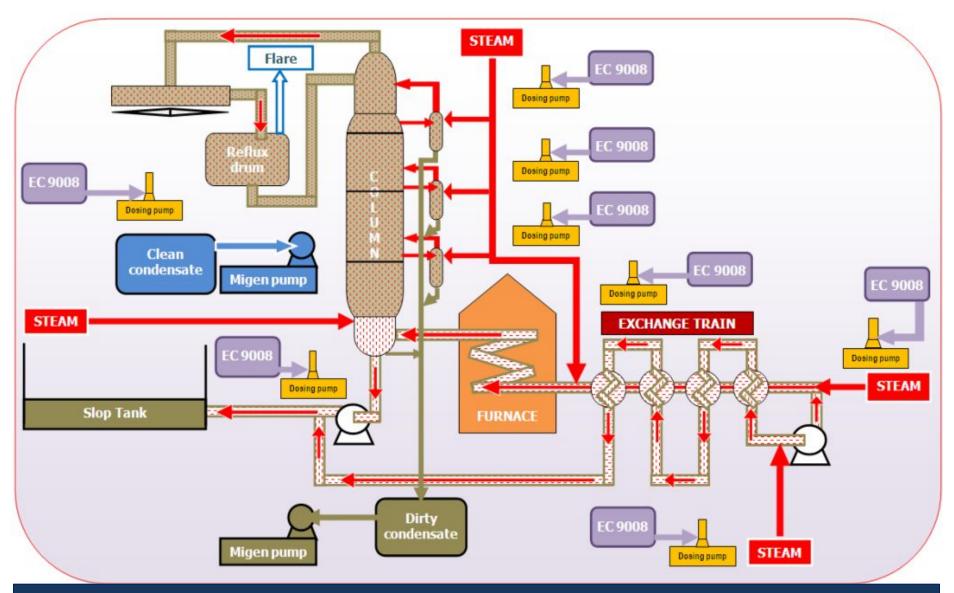




Degassing & Cleaning by steam with Nalco EC 9008 additive



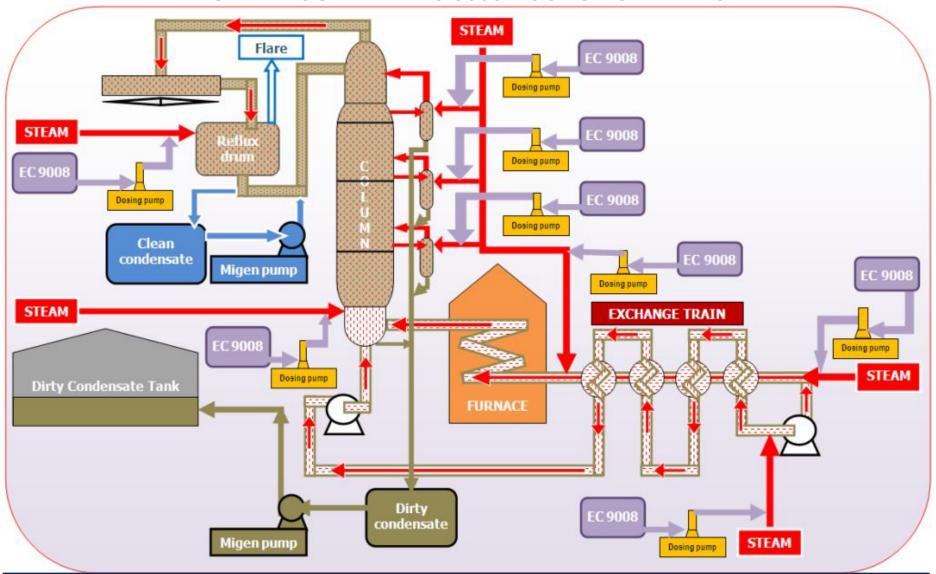
FLOW DIAGRAM SHOWING - STEAM OUT CIRCUIT (4 HOURS)







FLOW DIAGRAM SHOWING STEAM OUT WITH EC 9008 DOSAGE STARTING

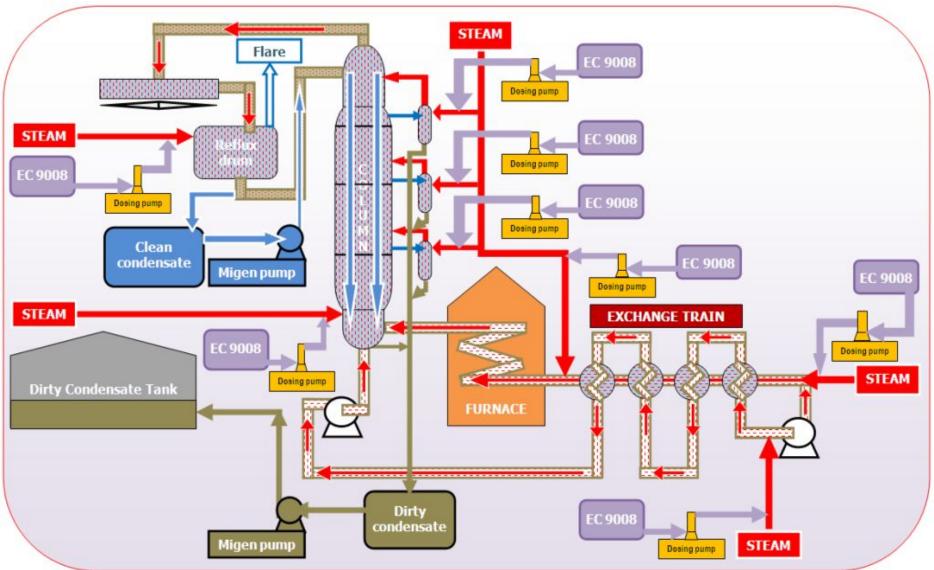






EC 9008 dosage to promote the hydrocarbon and An Ecolab Company dangerous substances emulsification into the condensate

FLOW DIAGRAM SHOWING STEAM OUT WITH EC 9008 DOSAGE & CONDENSATE CIRCULATION

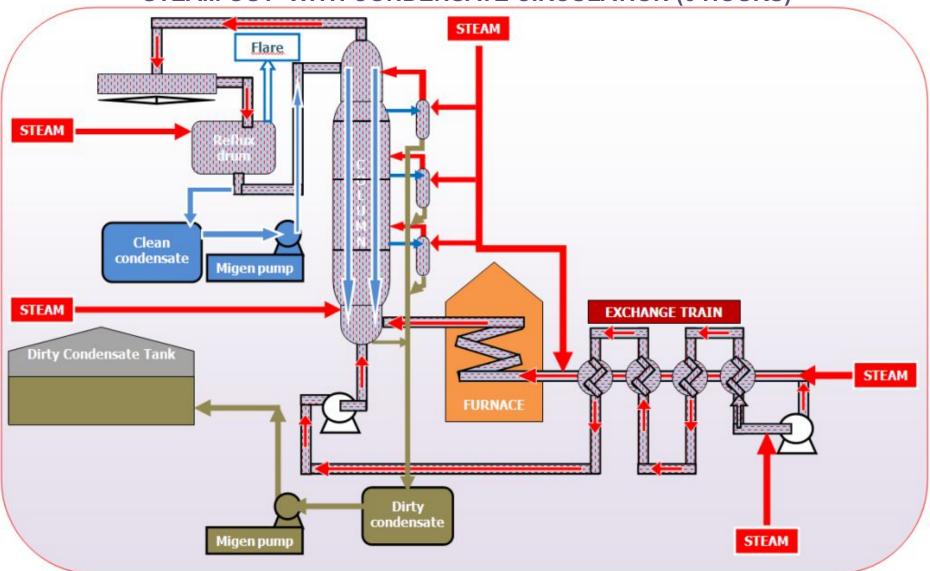






EC 9008 dosage to promote the hydrocarbon and dangerous substances emulsification into the condensate and Reflux of Condensate rich of EC 9008 Time to complete operation: 10-16 hours

FLOW DIAGRAM SHOWING STEAM OUT WITH CONDENSATE CIRCULATION (6 HOURS)

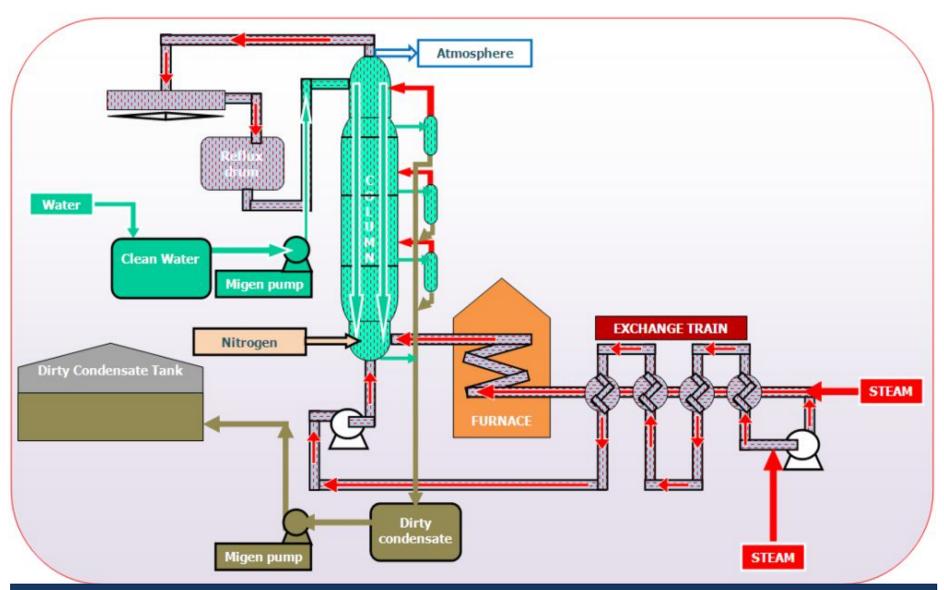






Circuits and items steam flushing to finish the emulsion displacement to the Dirty Condensate Tank
- Time to complete operation: 4-6 hours

FLOW DIAGRAM SHOWING – RINSE WITH CLEAN WATER (6 HOURS)

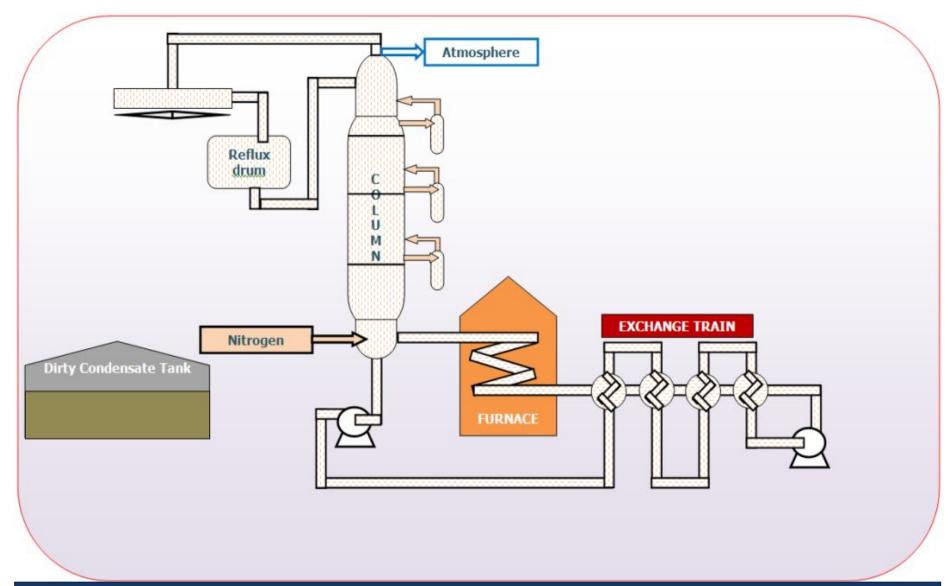






Main column rinse to cool the item and avoid emulsion stagnation above the trays
- Time to complete the operation: 6-8 hours

FLOW DIAGRAM SHOWING - FINAL SITUATION







FLOW DIAGRAM SHOWING - FINAL SITUATION + BROKEN EMULSION

