



License & Engineering Packages

- Haldor Topsøe have recently won a revamp of two identical 63,000 BPSD (9,635 m³/d) HDS Units for converting into ULSD at Formosa Petrochemicals Corporations refinery in Mailiao, Taiwan. The units were licensed in 1998 by IFP/Axens.

The units are going to be revamped into ULSD units with product sulphur less than 10 ppm and colour of L0.5. The stringent colour specification requires the use of Topsøe proprietary colour post treatment for reducing the product colour to L0.5.

- Haldor Topsøe have recently started up a diesel hydrotreater unit of 55,000 BPSD (8400 m³/d) for converting into ULSD at BP Coryton, UK.

The unit was revamped into ULSD unit with product sulphur less than 6 ppm. The reactor design data supplied by Topsøe is based on the application of Topsøe "Performance Focussed" Technology including hydroprocessing catalysts and state-of-the-art reactor internals.



Reactor Internals Technology & Catalysts

- Haldor Topsøe have recently won an installation of our state-of-the-art reactor internals and catalysts in a revamp of two 47,000 BPSD (7,200 m³/d) and 3100 BPSD (4,800 m³/d) HDS Units for converting into ULSD at ISAB North and ISAB South refineries in Sicily, Italy. The units were licensed by EXXON Mobil.

The units are going to be revamped into ULSD units with product sulphur less than 7 ppm and colour of L1.

- Haldor Topsøe have recently won an installation of our state-of-the-art reactor internals and catalysts in a revamp of one 34,600 BPSD (5,500 m³/d) HDS units for converting into LSD at REDUC refinery in Rio de Janeiro, Brazil. The units were licensed by CEMPES/Petrobras.

The unit is going to be revamped into LSD units with product sulphur less than 350 ppm and colour of L1.

- Haldor Topsøe have recently won an installation of our state-of-the-art reactor internals and catalysts in a revamp of one 11,800 BPSD (1,800 m³/d) coker naphtha and kerosene hydrotreater unit at REGAP refinery in Bello Horizonte, Brazil.

The unit is going to be revamped to maximize the operating flexibility and minimize the pressure drop through the reactor.