



**Chevron Lummus Global Selected
by Kuwait National Petroleum Corporation to Build World's Largest
Residuum Hydrotreater Complex**

Richmond, CA, Kuwait National Petroleum Corporation (KNPC) awarded Chevron Lummus Global (CLG) the world's largest residuum hydrotreater complex to be built anywhere in the world. This 330,000 BPSD hydrotreater complex, based on CLG's Upflow Reactor (UFR) technology is part of the New Refinery Project (NRP) in Kuwait whose design objective is to produce low-sulfur fuel oil for power generation. Because of equipment size and weight limitations and to provide additional operational flexibility, KNPC has decided to build three separate RDS units, each processing 110,000 BPSD atmospheric residue feed. In addition each unit will have two independent high pressure reactor loops with a common fractionation section. To mitigate pressure drop build-up during the run, the units are designed with UFRs as guard reactors. The basic design for this ARDS unit has just been completed; the unit is scheduled to start-up in 2010. For processing heavy feeds, the UFR technology is much more economical in assuring that cycle life will be determined by catalyst deactivation rather than by fixed bed guard zones of reactors.

CLG licenses refining hydroprocessing technologies and catalyst systems worldwide, and is a 50-50 joint venture between Chevron U.S.A. Inc., a wholly owned subsidiary of Chevron Corporation, and ABB Lummus Global.

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