

1. OBJECTIVES

The objectives of this contract were twofold:

- I. Construct a pilot plant for preparing precipitated iron oxide F-T precursors and demonstrate that the rate of production from this plant is equivalent to 100 lbs/day of dried metal oxide.

- II. Prepare catalysts from these precipitates capable of achieving 88% CO + H₂ conversion with ≤ 5 mole percent selectivity to methane + ethane. A standard set of operating conditions was defined.