

Development of Precipitated Iron Fischer-Tropsch Catalysts

Quarterly Technical Progress Report
for the Period 1 April 1996 – 30 June 1996

Texas Engineering Experiment Station Project 32525-44580

Prepared by: Dragomir B. Bukur

Contributors: X. Lang
Y. Ding
S. Chokkaram

Texas A&M University
Department of Chemical Engineering
College Station, Texas 77843-3122

September 2, 1996

Prepared for the Pittsburgh Energy Technology Center,
the United States Department of Energy Under Contract No. DE-AC22-94PC93069
Richard E. Tischer, Project Manager (PETC)

“U.S. Department of Energy Patent Clearance not required
prior to publication of this document”

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

RECEIVED
USDOE/PETC
36 SEP -6 AM 9:23
ACQUISITION & ASSISTANCE DIV.

NOTICE

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States nor any agency thereof, nor any of their employees, makes any warranty, expressed or implied, or assumes any legal liability or responsibility of any third party's results of such use of any information, apparatus, product or process disclosed in this report, or represents that its use by such a third party would not infringe privately owned rights.

PATENT STATUS

U. S. DOE Patent Clearance is not required prior to the publication of this document.

TECHNICAL STATUS



This technical report is being transmitted in advance of DOE review and no further dissemination or publication shall be made of the report without prior approval of the DOE Project/Program Manager.

DISCLAIMER

**Portions of this document may be illegible
in electronic image products. Images are
produced from the best available original
document.**

TABLE OF CONTENTS

I.	Executive Summary	1
II.	Objectives and Scope of Work	2
III.	Detailed Description of Technical Progress	5
III. 1	Project Work Plan	5
III. 2	Engineering Modifications and Training of New Personnel	5
III. 3.	Testing of Previously Synthesized Catalysts	5
III. 4.	Reproducibility of Catalyst Preparation	5
III. 5.	The Effect of Source of Potassium and Basic Oxide Promoter	5
III. 6	Pretreatment Effect Research	5
III. 7	Calcination Effect Research	12
III. 8.	Catalyst Characterization	15
III. 9	Catalyst Testing in a Bubble Column Slurry Reactor.....	20
III. 10	Scale-up of Catalyst Synthesis Procedure.....	20
	Plans for the Next Quarter	20
	Tables.....	21
	Figures.....	26