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Docket Number:	18-ALT-01
Project Title:	2019-2020 Investment Plan Update for the Alternative and Renewable Fuel and Vehicle Technology Program
TN #:	225815
Document Title:	Joseph R. Degenfelder Comments Alternative Fuels Summary since 1990
Description:	N/A
Filer:	System
Organization:	Joseph R. Degenfelder
Submitter Role:	Public
Submission Date:	11/6/2018 8:01:41 AM
Docketed Date:	11/6/2018

Comment Received From: Joseph R. Degenfelder
Submitted On: 11/6/2018
Docket Number: 18-ALT-01

Alternative Fuels Summary since 1990

Additional submitted attachment is included below.

Alternative Fuels Summary, 1990-present

162,000 gal @ \$330/gal	Nil Volume Inherent failed economics	Camelina oil not viable US EPA approval of diesel fuel from Camelina issued Nov. 2013	412 million gal 2014	70 million gal/yr 2014	No liquid fuels	12 million gal/yr	1 million SqFt Modular Fab Feb. 2015	Project defined Jan. 2015	Richardton, ND - Dickinson, ND ITGR Project
Syntroleum Corp	ICVR (2) March 2015 Integrated Corn Biorefinery	400,000 gal 2011 \$30-32/gal Sustained Oils, LLC 140,000 gal USAF + Naval Air \$86.50/gal 2010 HEFA Jet Fuel specs 2009 Dr. James Edwards USAFRL - Dayton	Rotterdam 2013 Singapore 2011 Porvoo 2006 NExBTL	Ren Energy Group purchase 2013 equipment misdesign	Multiple waste processes purchased by Outotec 2011 Energy Products of Idaho process failure shutdown 2014 KiOR Miss. Plant 2012	2 2016 startups July 2015 startup Vadxx Energy Akron, OH Plant	Waste Mgmt. Inc NRG Energy Velocys Kurdish Iraq 5 refineries 2010-2015 Siberia 4 refineries 1990s	Process on-well Portage Co., OH	Project defined March 2015 oil stabilization project February railcar crashes huge burns interim spec for vapor pressure Bakken Crude is useless 1st Qtr 2015
Conoco GTL	CAAFI 2006 Cellulosic Ethanol to Jet Fuel	Michigan Tech Camelina Oil Supply 1B lbs/year 2008	Neste Oil Co.	Dynamic Fuels Tyson/Syntroleum 2011	Finland, Italy Pyrolysis 1990s	Auto scrap residue	Ventech Int'l	AGI Methanol	Lowcap GTL Bakken Crude

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March 23-27, 2015