

US EPA ARCHIVE DOCUMENT

# Celanese Corporation

## A Company Overview



# General Overview of Celanese

## Celanese is a global technology and specialty materials company

- ▶ We produce chemicals and advanced materials used in consumer products and industrial applications
- ▶ Our products enjoy leading global positions
- ▶ Based in Dallas, Texas, we have approximately 7,600 employees worldwide.
- ▶ Ranked 368 on the Fortune 500 in 2012

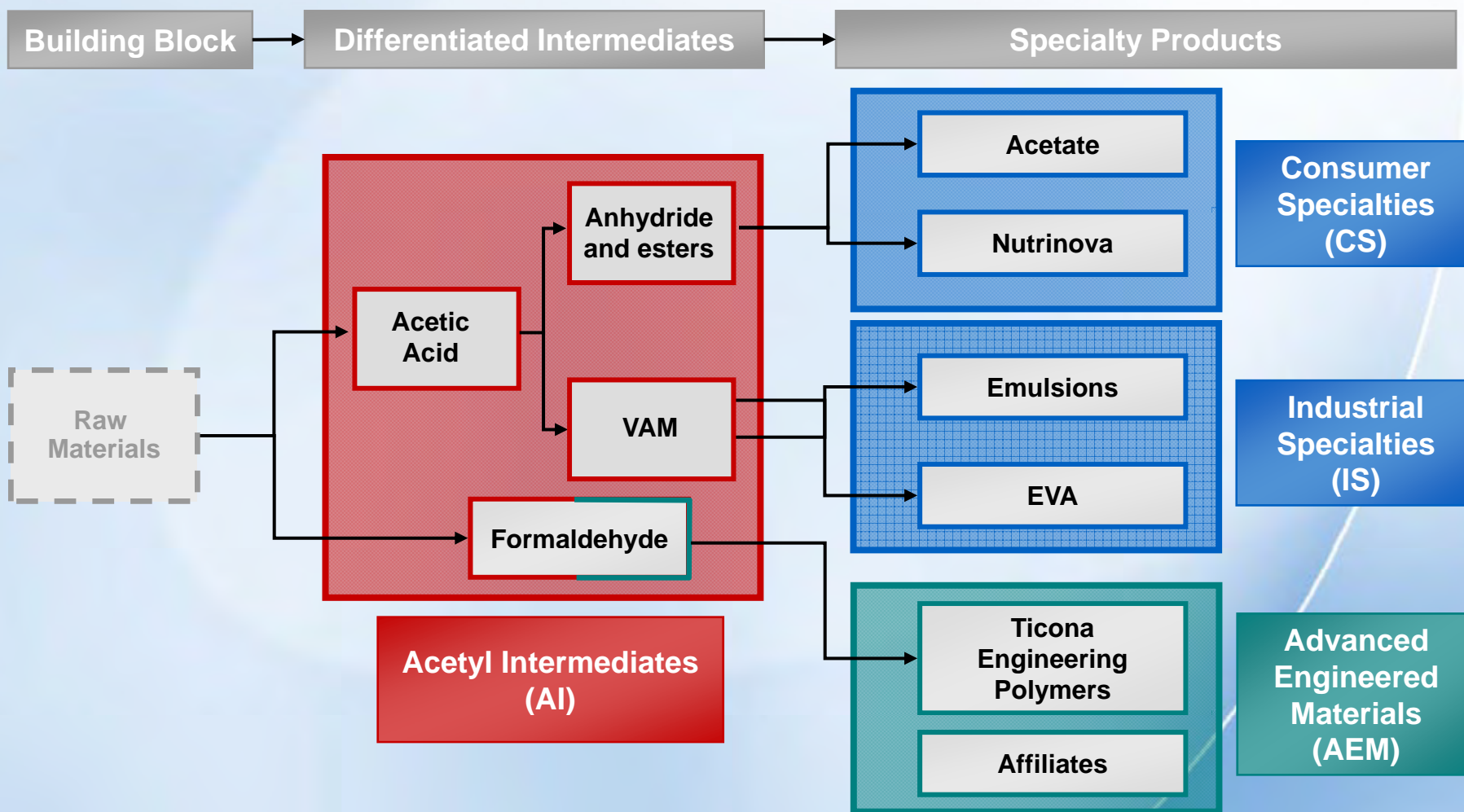


# Our diversified end-uses provide a foundation for future growth and platforms for innovation Celanese



**Diverse applications in growth segments**

# Integration of Celanese businesses



# **Greenhouse Gas Permit Application Clear Lake Plant Methanol Unit**

## Clear Lake Site Overview

### Site Facts

- ▶ Located near Houston, Texas
- ▶ Started up in 1967
- ▶ Largest plant in Bayport Industrial Complex
- ▶ ~900 Acres; 400 Acres Developed
- ▶ 12 production units – Celanese and partners
- ▶ R&D facilities are housed at the site
- ▶ Currently ~200 Celanese and 100 contract employees



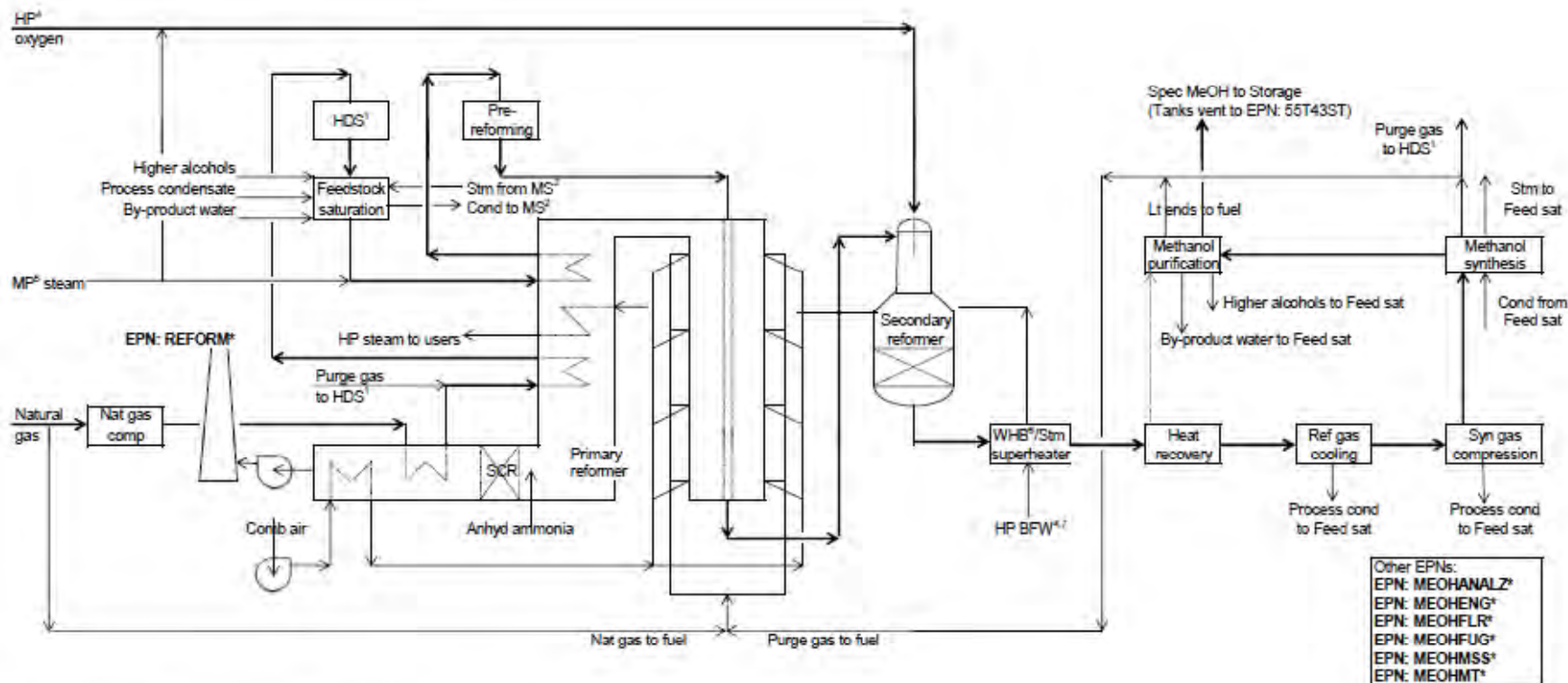


## Methanol Project Overview

- ▶ Methanol is a key raw material/feedstock
- ▶ Previously operated methanol plants in Texas
  - When gas prices were high, those plants were shut down
  - Began buying methanol from overseas
- ▶ New plant will allow us to manufacture methanol onsite rather than purchase it from off-shore companies
  - Take advantage of changes in U.S. natural gas price/supply
  - Utilize more energy efficient technology
- ▶ Selected process is 20% more energy efficient than traditional methanol technology

# Methanol Process Overview

Simplified process flow diagram (PFD)  
 Celanese Chemicals  
 Clear Lake Plant  
 New Methanol Plant



- Notes:
- (1) HDS = Sulfur removal via hydrogenation/zinc oxide absorption
  - (2) MS = Methanol synthesis
  - (3) EPNs with \* are sources of GHG. All other EPNs are non-GHG emission sources.
  - (4) HP = High Pressure
  - (5) MP = Medium Pressure
  - (6) WHB = Waste Heat Boiler
  - (7) BFW = Boiler Feed Water

## Status of Greenhouse Gas PSD Permit

- ▶ Aug. 20, 2012 - Application filed
- ▶ Nov. 1, 2012 – CEO Mark Rohr meets with Regional Administrator Ron Curry
- ▶ Nov. 21, 2012 – Incomplete Letter
- ▶ Dec. 18, 2012 – Revised application submitted along with Biological Assessment and Cultural Resources Report
- ▶ Jan. 23, 2013 – Met with Region 6 permitting leadership
- ▶ Jan. 31, 2013 – Phone meeting; Region 6 requested additional information
- ▶ Feb. 1, 2013 – Additional information submitted
- ▶ Complete letter expected any day
- ▶ NSR/PSD permit from TCEQ expected June 2013

***Application filed nearly 6 months ago – permit needed by early August to meet construction deadline***

## Need to Work With EPA Throughout Permitting Process To Meet Critical Needs

- ▶ Current methanol supply contract set to expire
- ▶ Need air permits by early August 2013 to meet tight construction deadlines and allow time to get new facility online
- ▶ This project is a re-shoring of jobs to the US
  - Anticipate up to 300+ jobs during construction in 2013-2015
  - 50-75 new permanent jobs at the Clear Lake Plant