

The Depot Project (1960s)

- Manufacture fuel from air and water in field for military use.
- Storage and handling of fuel.
- Selection of ammonia as candidate fuel.
- Determination of ammonia combustion model.

Electrolytic Cell for Production of Hydrogen

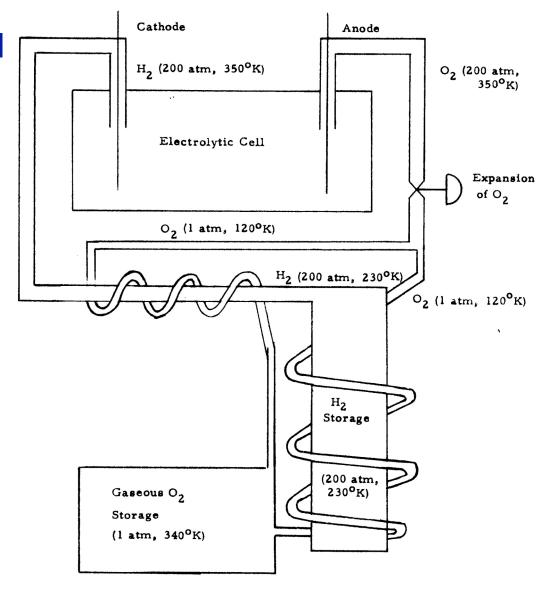
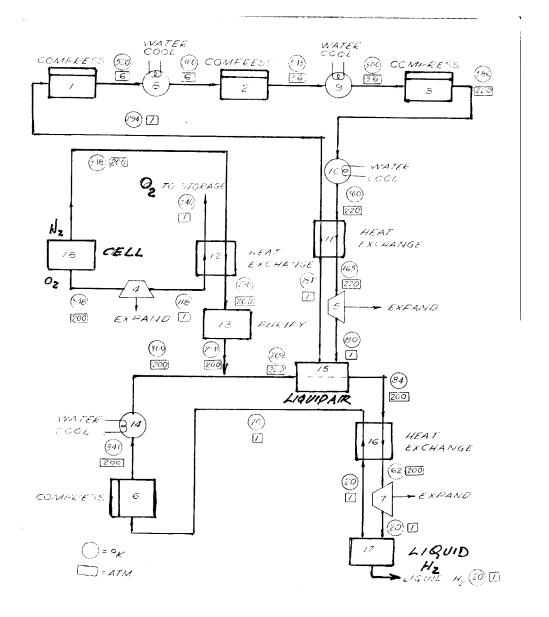
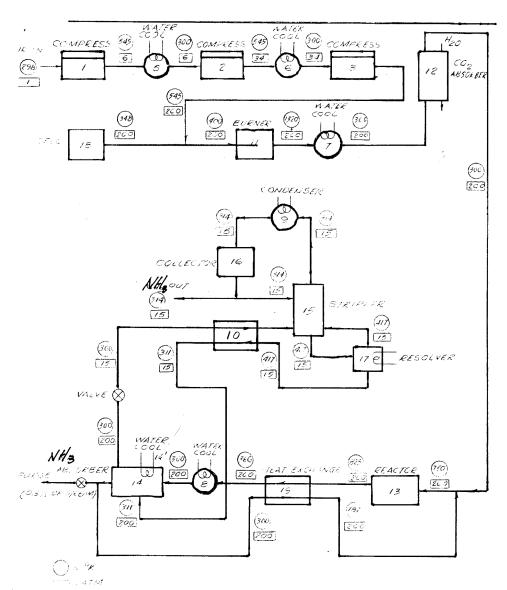


FIGURE III - 3

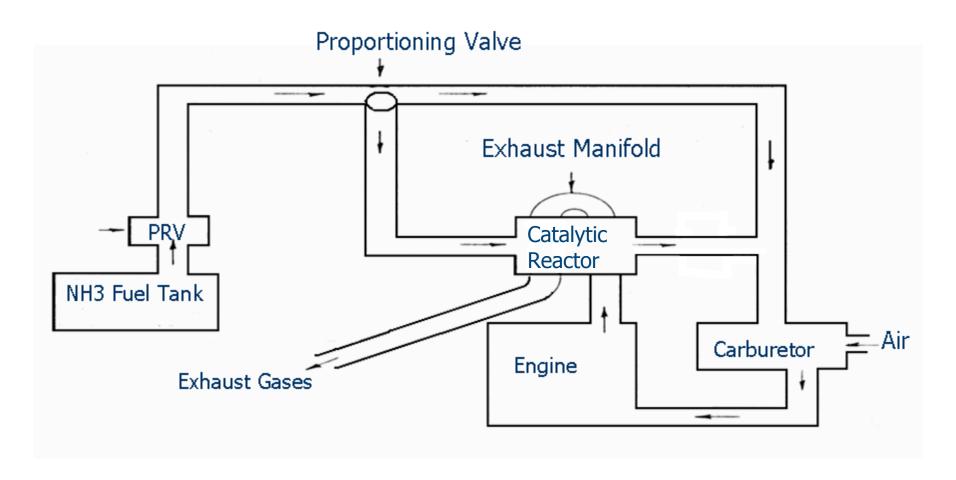
Combined Cooling and Storage of Electrolytic Hydrogen (from 200 atm, 350°K to 200 atm, 230°K) Using Expanded Electrolytic Oxygen.



Liquid H₂ Manufacture



Ammonia Manufacture



Engine Fuel Flow System

COMBUSTION MODEL

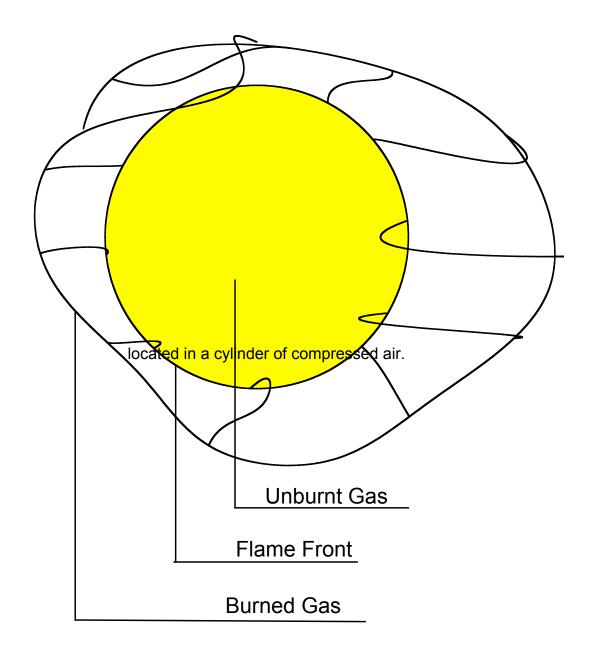


Figure 2a Flame front Propagation in a Vapor Cell

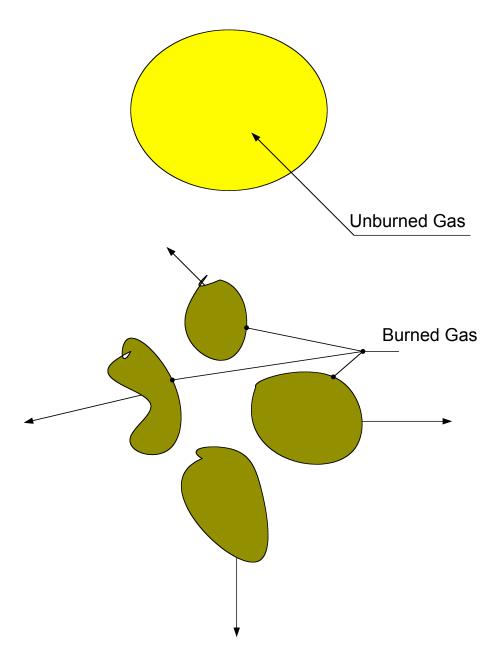


Figure 2b Volume Combustion

FUEL SYSTEM HARDWARE

Cavitating Venturi

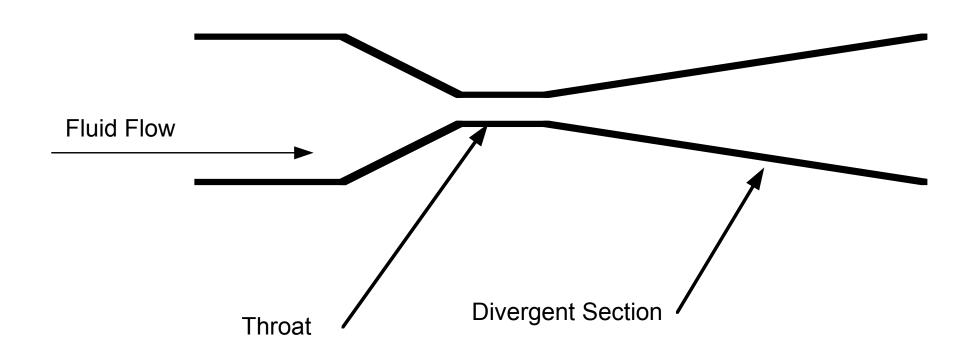


Figure 3. Cavitating Venturi

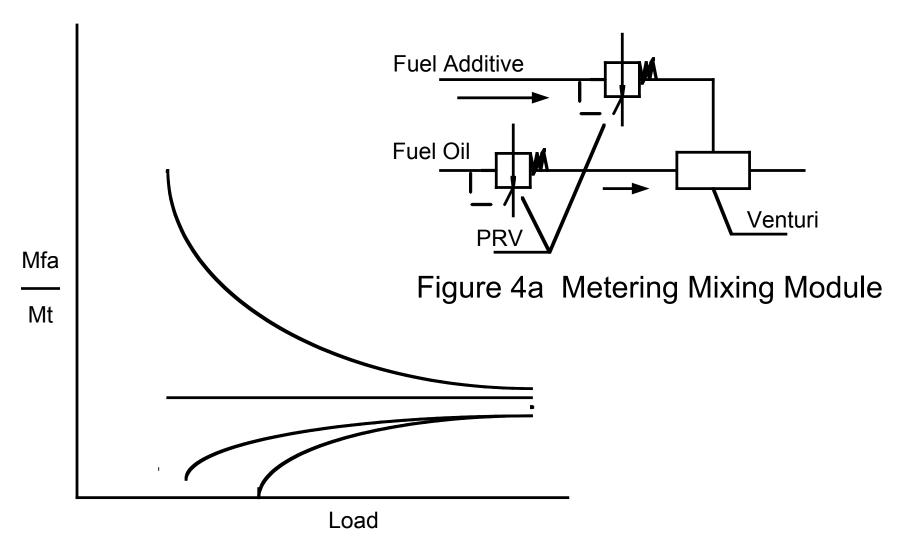
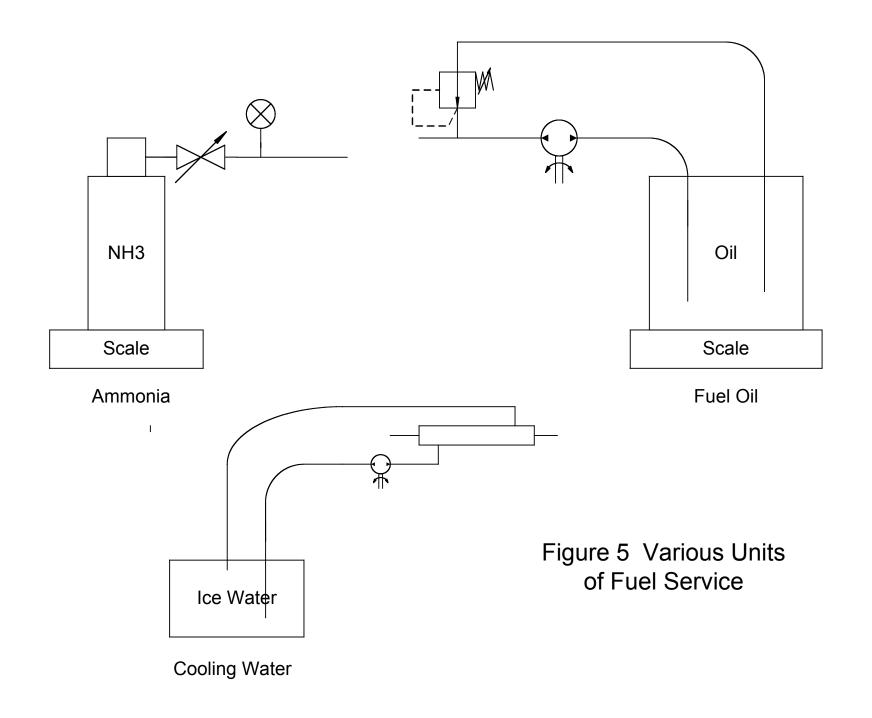


Figure 4b Fuel Flow Map for M



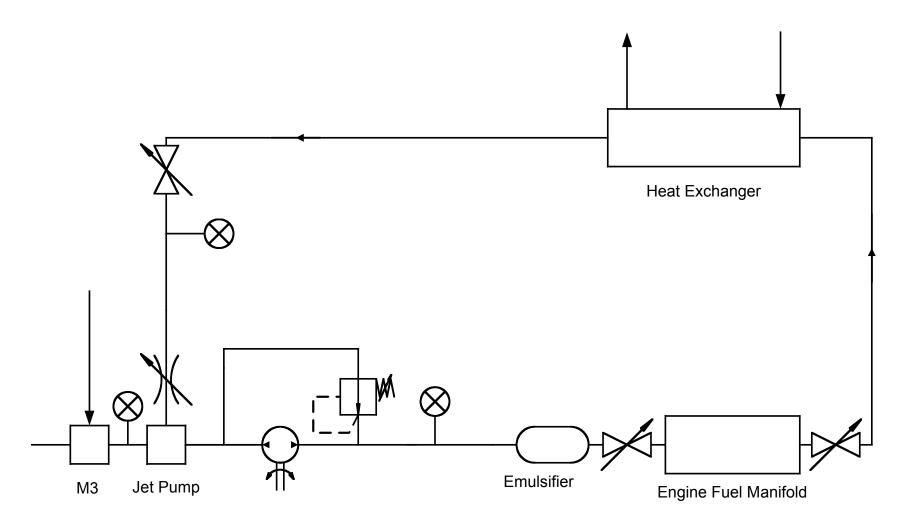


Figure 6. Emulsifier Fuel Service





