

## Sources of Liquid Hydrogen

Let it first be pointed out that we (THRUST) do not have any experience in the manufacturing or production of Liquid hydrogen, however we do have 30 years of experience with NASA as it relates to Liquid hydrogen. With this in mind allow us to suggest one scenario by which to support this type of project with the understanding that the most efficient and best means should be determined by the production and manufacturing arm of the industry.

Given this, we would like to propose that the hydrogen manufacturing facilities be located in close proximity to the THRUST operational units, that is, each unit or grouping of units have their supporting manufacturing liquid hydrogen plants solely dedicated to a single THRUST unit or grouping of THRUST units or in some type of optimum combination. This suggestion might be extended to suggest that the THRUST unit become “bundled with its individual production facility” or as the THRUST unit and its related production facility be thought of as a “single package”.

This approach, on the surface appears to have merit but has little or no study how ever it appears to have some benefits such as the elimination of the need to transport and store hydrogen for extended periods and the associated and related concerns.

A second benefit that on the surface appears to be attractive is that the cogeneration of electricity part of THRUST, that is the [“Efficiency Enhancent Add – On Units”](#) be fed back to a second generator totally devoted to the manufacturing of liquid hydrogen. This scenario will require extensive study related to efficiency and other related concerns.