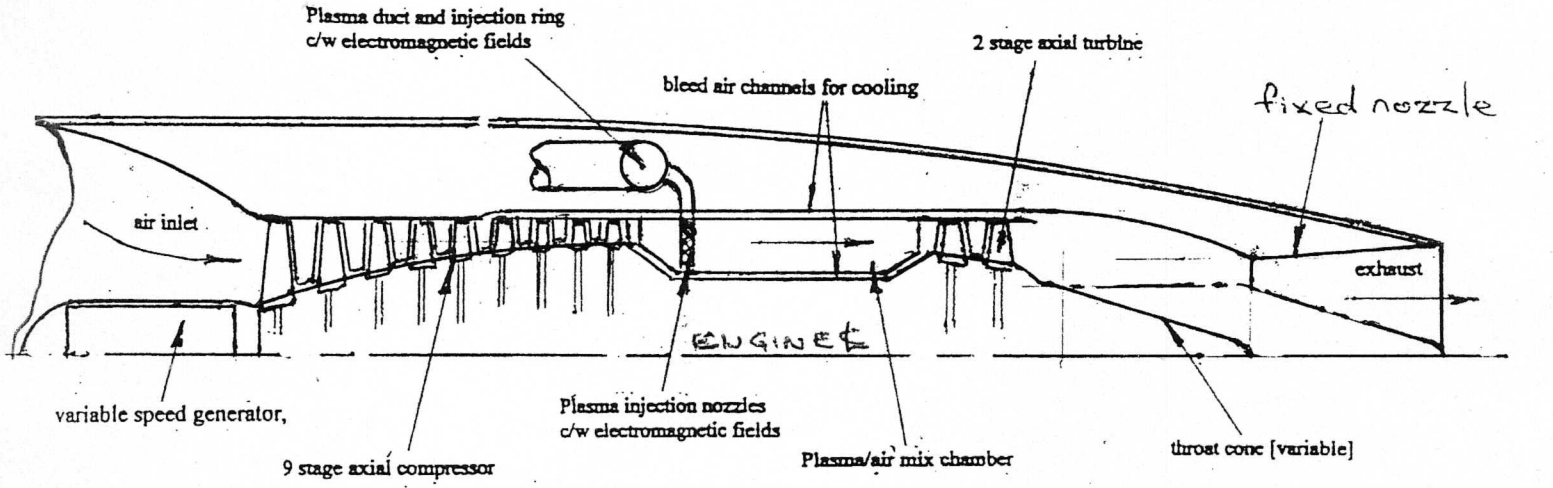
THE PLASMA TURBOJET FOR A SPACE TOUR BUS
[for propulsion through the atmosphere]
Designed by J Varney June 14th. 2010



1·5 MW variable speed generator, is cooled with the hydrogen gas feedstock for the plasma process and is mounted on the engine shaft out of the air stream forward of the compressor air inlet duct.

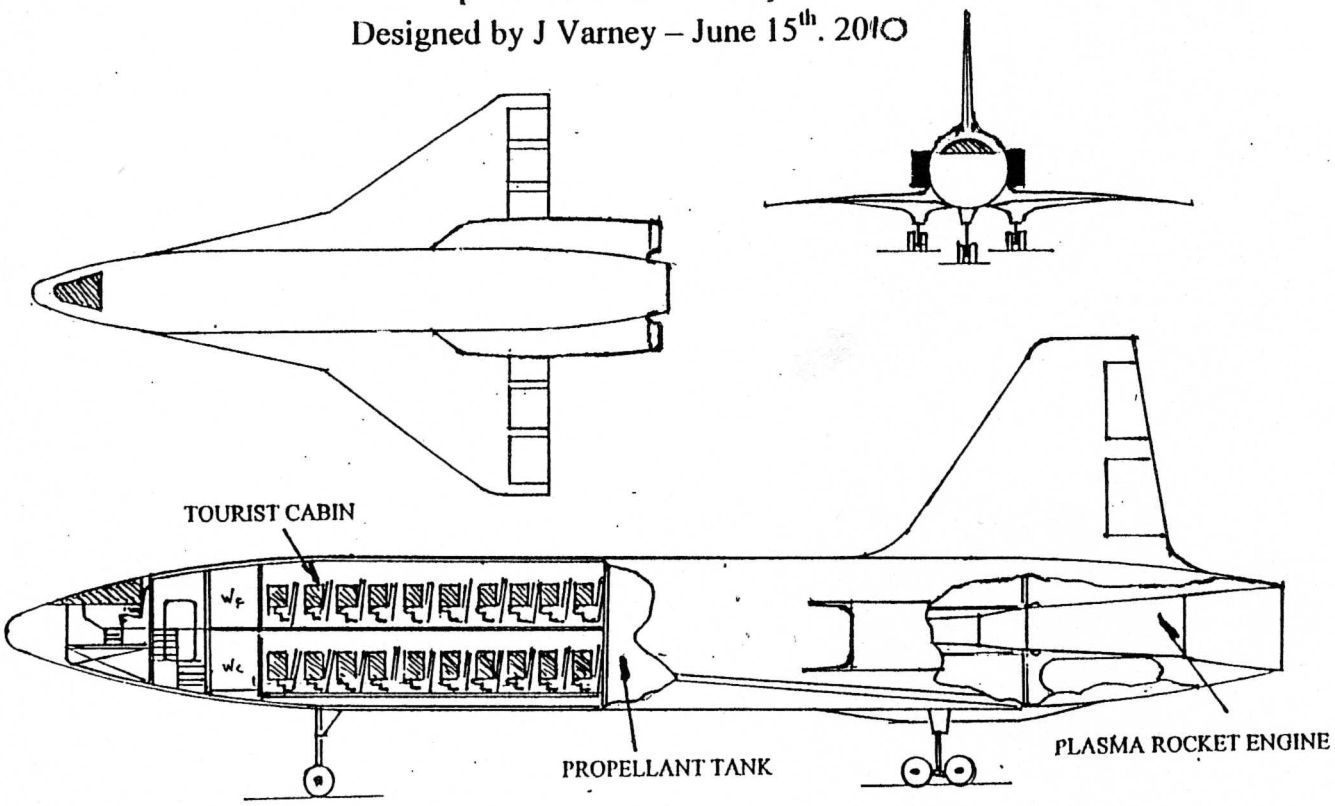
Spacecraft details:100 passengers [on 2 decks]: All-up weight 220,000 lbs: Wing area 2420 sq.ft. Fuel tank for turbojets [liq. hyd] 1000 lbs.: Fuel tank for rocket engine [liq. Hyd.]24,000 lbs. Fuselage O.D 180 inches: Construction - Carbon composites
Air intake system [both sides of fuselage] incorporates two-dimensional ducts with profiling and ramps to accommodate intake air for both turbojet engines, to vehicle speeds up to mach.3.
Each turbojet exhaust system [positioned either side of the central rocket engine] is integrated into the tail section of the fuselage and to include a variable throat cone and a fixed exhaust nozzle that will effect a supersonic condition throughout operating envelope.
Performance per turbojet engine:

	Take-off @ 60% RPM.	Transonic @ 40,000 ft.	Mach.3 cruise @ 70,000 ft..
Air rate to engine lbs/sec	714	383	254.5
Total compression ratio	4	14.15	94.4
Compressor PR	4	7.5	2.57
Temp to Turb. Deg.F	1907	3000	3059
Turbine PR [outlet/inlet]	0.5682	0.5682	0.5682
Exhaust vel. ft/sec.	2214	4041	5142
Thrust generated lbs. F	49,093	36500	17,515
Plasma rate lbs/sec.	0.0284	0.0264	0.0142

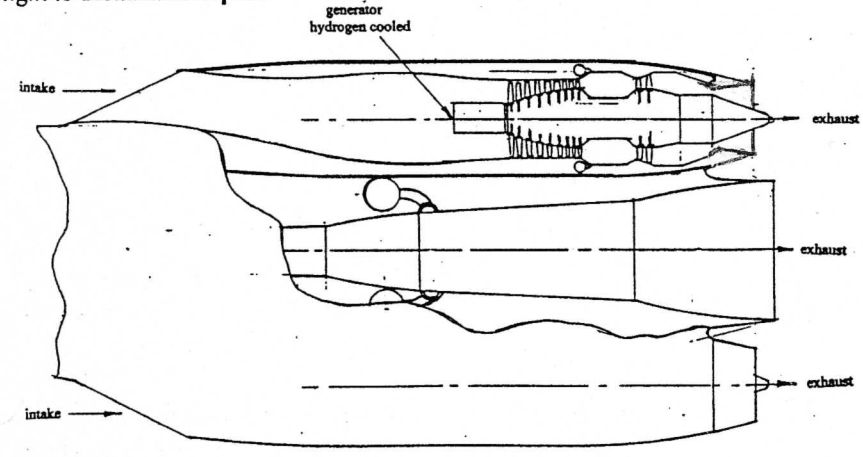
Note- heat in the pure hydrino plasma is assumed @ ten million btu/lb.[200 times LHV of hydrogen]

THE SPACE TOUR BUS – MOON ORBITER
[2 DAY ROUND TRIP]

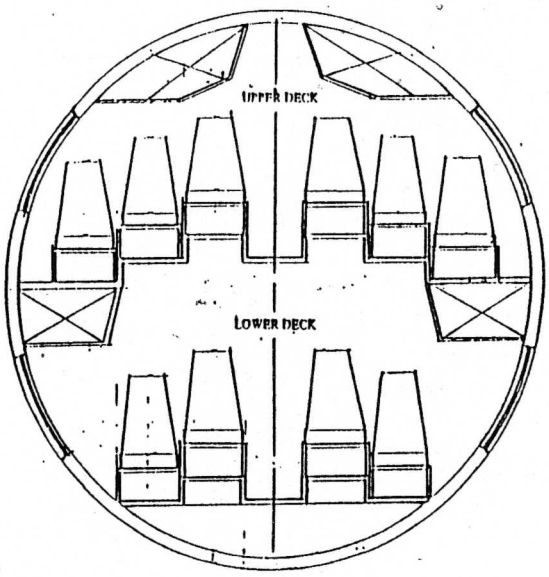
Designed by J Varney – June 15th. 2010



During deceleration mode, the vehicle will be oriented in the backwards position such that the plasma rocket functions as a retro-rocket. As the vehicle negotiates re-entry, deceleration to less than mach 1 at the upper atmosphere, will ensure that no excessive frictional heating occurs. The craft will then re-orientate to the forward position and, after glide to 70,000 ft., will start-up the plasma turbojet for powered flight to destination airport.



PLAN OF TWIN PLASMA TURBOJET ENGINES AND SINGLE PLASMA ROCKET ENGINE



TOURIST CABIN SECTION

Space Tour Bus data

Plasma rocket thrust - 500,000 lbs.f.
Number of passengers - 100 on 2 decks
Cruise in space at 30,000 M.P.H. max.
Construction – carbon composites
All-up weight – 220,000 lbs
Hydrogen tank – 5,650 cu.ft.[25,000 lbs.]
Length - 120 ft. Fuselage O D 15 ft.
Wing span –85 ft. Wing area - 2420 sq.ft.