

IAF SPACE PROPULSION SYMPOSIUM (C4)
Propulsion System (1) (1)

Author: Mr. Alexandr Prokopchuk
Yuzhnoye State Design Office, Ukraine

Mr. Volodymyr Shulga
Yuzhnoye State Design Office, Ukraine

Mr. Andrew Kukhta
Yuzhnoye State Design Office, Ukraine

Mr. Yevgen Strelchenko
Yuzhnoye State Design Office, Ukraine

DEVELOPMENT TESTS OF RD815 ENGINE PREBURNER DEMONSTRATOR

Abstract

Yuzhnoye State Design Office specialists have developed a project of an intended for launch vehicle first stages RD815 main liquid rocket engine with a sea level thrust of 250 tf. The engine operates on LOX+kerosene propellants and utilizes a closed cycle. Experimental fire tests of a demonstrator unit are being undertaken to verify the technical solutions, applied in the design of one of key engine units – the preburner. The report presents an overview of carried out works and RD815 engine preburner demonstrator test results.