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MODULAR NUCLEAR REACTOR STATIONS PARKED AT LAGRANGE POINTS FOR  
SUPPORTING VARIOUS SOLAR SYSTEM MISSIONS

**Abstract**

Le rêve des étoiles or the Dream of Stars has been the dynamo of mankind for technological advancement since the inception of Gobekli-tepe. While, extraordinary accomplishments have been achieved to make reaching moon and the Mars viable in the next 5-10 years, the outer solar system as well as locations beyond Mars in the inner solar system is still logistically difficult. One of the main constraints for long term space missions to long range destinations is the availability of power. All space missions whether manned or unmanned require power and the scope of space missions is usually defined by the availability of power. In order to make space accessible by all, stationary power stations are needed to allow for space missions to get power for their needs. This paper discussed modular nuclear reactor stations that are parked at Lagrange Points for Supporting Various Space Missions. These modular stations can store power for any mission and can be even attached and detached to spacecraft as needed. With the availability of such mini modular stations parked at various Lagrange points, several missions can be easily deployed in the future. This paper discussed the design of the modular reactors and the attachable/detachable stations for supporting future space missions.