



PROPOSAL DEVELOPMENT



LVPP - HANFORD NUCLEAR WASTE

A proposal was requested by the DOE Office of Environmental Management in May, 1999. A [proposal](#) for a demonstration program for \$72 million was submitted and was initially well received (See the [Economist](#) article.) A series of conversations with the program manager included questions such as his asking "If we support this, how will we justify our present chemical approach?" No funding developed. Since then, the Archimede Group in San Diego received about \$90 million in private industry funding for a plasma mass filter process. It similarly met resistance by Hanford and is no longer in business.

The potential of a terrorist attack on the waste tanks at Hanford, presents unimaginable hazard for Washington and the people in surrounding areas. (It was chilling to see a terrorist arrested on the Canadian/Washington State border.)

We believe a compelling case can be made for solving this homeland security problem and providing a safe, rapid means of removing the tank waste from the Hanford tanks and tremendously reducing the amount of waste that needs to be sequestered.

Parties interested in pursuing this solution to the Hanford problem should contact us.

FUSION TORCH CHALLENGE

We would like to establish a prize of \$50 million to the person or organization that develops an engineering plan for a fusion torch device that could credibly produce power and recycle pellets of uranium oxide fuel and samples of municipal waste. The plan must include proof of principal equipment and testing.

FUSION TORCH II

We are collaborating with William C. Gough to write an update of the original Fusion Torch paper.

LVPP THIN FILM PLASMA PROCESSOR

We have prepared a prototype proposal that requires \$2.5 million in funding and are looking for a corporate partner.

TSPS PROPOSALS

The capability of advanced numerical simulations has improved by a factor of more than 10,000 since the TSPS paper was written. [Ming Xue](#), who helped modify the ARPS code for the TSPS ESA paper has recently published increasingly explicit simulations. We would like to team with a university of corporation to use this code or codes like it, to study the effect of microwave heating beams on mesocyclones. We would also like to team with interested individuals who would like to study the potential benefits of a dual use solar satellite. We would also like to team with individuals or institutions that would like to design a feasibility experiment utilizing the solar panels on the International Space Station as a power source to design a demonstration before the U. S. Shuttle program is terminated.