

3 Space Nuclear Power

Requirements for Space Nuclear Power

All officials who appeared before the Committee agreed that at present there is no firm requirement for the higher power levels attainable through space nuclear power. Potential Air Force and NASA users are loath to adopt a requirement prior to demonstration of the technology from a concern about having their program burdened with a large development bill, perhaps in the range of \$500 million-\$1 billion. Yet most managers of space systems programs recognize that the future expansion in the scale of space utilization points toward nuclear power for space application. Thus, one observer characterized the view of the potential space nuclear power user as "while we do not have a requirement for space nuclear power at present, we sure would like to have it." The military users should recognize that someone will need to bear the research and development cost for the operational capability they will require. Accordingly, these users should recognize that the desired capability will not be forthcoming unless they are more supportive of these initial research and development efforts.

There are two essential considerations that lead to a preference for nuclear power over alternative energy sources. First, at large power levels it is possible to realize specific energy density levels that cannot be attained by alternative technologies. Table 1 summarizes the specific energy densities attained by space nuclear reactors compared to the alternatives of solar power and RTGs. The upper levels for the solar and RTG sources assume considerable advances in the technology.

Nuclear reactors necessarily require large minimum weights. Taking into account this "overhead" required to fly a nuclear reactor, there is a crossover in the lower weight alternative between solar/batteries and nuclear at a power capacity of approximately 25-40 kW(e). Moreover, beyond this level, both the volume and weight of the solar power system begin to strain the capacity of the existing U.S. Shuttle

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N Noddings



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