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SNAP 19 VIKING PROGRAM
BIMONTHLY TECHNICAL PROGRESS REPORT

TES-32066-7

October and November 1980

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Program Manager

Prepared for
The U.S. Department of Energy
under Contract DE-AC01-80ET32066

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EMB

DESIGN AND SYSTEM ENGINEERING

Accomplishments

1. Monitoring of power system performance data for Pioneer 10 and Pioneer Saturn spacecrafts continued through the reporting period. The net power output for either system at the end of October, 1980, was 113 watts. Power histories since launch are presented in Figure 1. In seven years since the flyby of Jupiter, the Pioneer 10 power system has retained 77% of its useful power, and degradation has been nearly linear at a rate of 0.130 watts/1000 generator hours. The Pioneer Saturn power degradation is slightly higher at 0.135 watts/1000 generator hours. Both systems are performing without anomaly.
2. Viking Lander No. 1 data have not been made available during the reporting period because of Voyager Saturn utilization of space data links.

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FIGURE 1
RTG FLIGHT SYSTEM PERFORMANCE