

TABLE II-6

PERFORMANCE SUMMARY FOR 3P/2N RTG DESIGN  
(INITIAL ARGON FILL)

	<u>BOL</u> <sup>1</sup>	<u>EOM</u> <sup>2</sup>
Nominal input power (watts)	625	617
Nominal output power (watts)	30.3	26.6 (24.8) <sup>3</sup>
RTG efficiency (%)	4.85	4.32
RTG specific power (watts/lb)	1.13	1.00
Load voltage (volts) <sup>4</sup>	2.4 (3.6)	2.4 (3.6)
Load current (amps) <sup>4</sup>	12.6 (8.4)	11.1 (7.4)
Hot junction temperature (°F)	978	938
Cold junction temperature (°F)	415	390
Fin root temperature (°F)	350	348
Total internal pressure (psia) <sup>5</sup>	14.7	5.0
Helium concentration (%) <sup>5</sup>	0	6.1

<sup>1</sup> Beginning-of-life, defined as at fueling nine months prior to launch.

<sup>2</sup> End-of-mission, defined as one year after launch.

<sup>3</sup> Output power at EOM for a 0.96 reliability shown in parentheses.

<sup>4</sup> Values in parentheses are for two series-parallel strings.

<sup>5</sup> Based on 100% He release from capsule and  $3 \times 10^{-5}$  scc/sec seal tightness (see Section III-C).