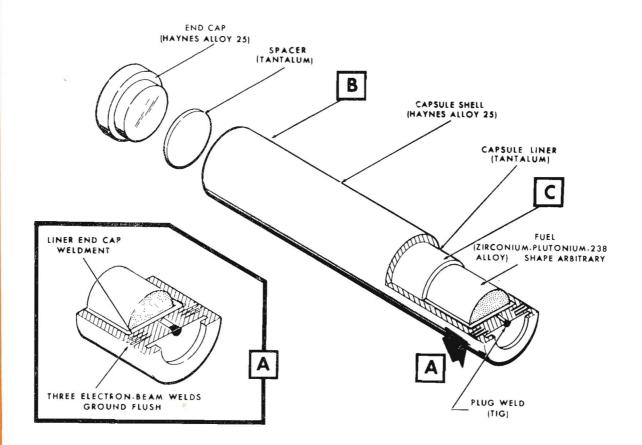
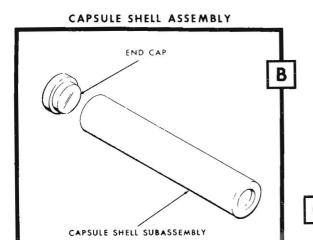
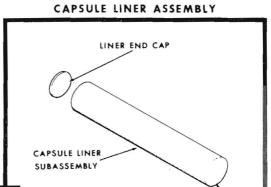
SNAP-19C

Fuel Data	
Fuel Form	²³⁸ Plutonium-
	Zirconium Alloy
Fuel Required	
Weight Pu-238/	
Source (grams)	6 @ 176; 1 @ 300
Weight Fuel/	
Source (grams)	6 @ 242; 1 @ 411
Heat Sources	
Number Fabricated	7
Watts (th)/Source	6 @ 100; 1 @ 170
Operating Temperature OC	550
Materials of Construction	
Liner	Tantalum
Strength Member/Clad	Haynes Alloy No. 25
Geometry	Cylinder - 5.767 in.
•	x 0.981 in. O.D.
Weight/Source	
(pounds)	1.35

Dimensions		
Liner		
Length (inches)	4.900	
Diameter (inches)	0.774	
Wall Thickness		
(inches)	0.02	
Cap Thickness		
(inches)	0.03	
Strength Member/Cla	d	
Length (inches)	5.256	
Diameter (inches)	0.981	
Wall Thickness		
(inches)	0.10	
Cap Thickness		
(inches)	0.28	
Fabrication		
Strength Member - EB closure welded		
plus TIG welded backfill hole		
Liner - TIG welded in argon atmosphere		







BOTTOM END CAP (LINER)

The SNAP-19C heat sources were fabricated at Mound Laboratory in 1965 for the Martin Company, the systems contractor. Sponsored by the U. S. Navy, the SNAP-19C system was used to provide electrical power for remote telemetry stations. Heat source fabrication work at Mound was sponsored by the AEC Division of Reactor Development and Technology.

Monsanto



MOUND LABORATORY Operated for the U.S. Atomic Energy Commission

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