

[REDACTED]
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Mr. C. L. Carpenter - 7125

- 2 -

T-18140

Gas samples from the three weapons were obtained as follows:

The gas sample bottles were evacuated to approximately .1 inch of Hg. absolute. An analytical Mass-Spectrometer was used to determine the helium content of the samples taken from the weapons.

Table #1 indicates the temperature environment under which the tests were conducted.

Results of helium content are also listed in the table.

The defusion tests were performed by Division 4631, Section 4631-1.

Conclusion

Because of the small amount of helium gas in the weapons, and because this percentage remained reasonably constant, we were unable to determine a method for removing larger concentrations of the helium gas.

A. K. Alberts

A. K. ALBERTS - 7321-5

Approved By: R. S. HOOPER - 7321-5

AKA:7321-5:mw

Encl: Table I

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→ R. K. Smeltzer, 3421-3

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DATE	AL-2126-39	H-118-78	H-118-78	TEMPERATURE
12-19-61	.015 %	.015 %	.015	Ra. Temperature
1-21-62	.015	.009	.014	+ 160°F
1-25-62	.015	.009	.015	"
1-26-62	.015	.009	.015	"
1-29-62	.015	.009	.014	"
1-30-62	.015	.007	.011	"
1-31-62	.018	.009	.015	"
2-1-62	.015	.007	.013	"
2-2-62	.017	.006	.016	"
2-5-62	.017	.009	.017	"
2-6-62	.017	.007	.014	"
2-7-62	.014	.008	.015	"
2-8-62	.016	.010	.019	"
2-9-62	.015	.008	.013	"
2-12-62	.014	.007	.015	"
2-13-62	.015	.008	.014	"
2-14-62	.015	.007	.015	"
2-15-62	.015	.008	.014	"
2-16-62	.017	.009	.015	"
2-19-62	.018	.007	.016	"
2-20-62	.018	.009	.017	"
2-21-62	.018	.009	.016	"
2-26-62	.018	.009	.017	"
2-27-62	.016	.008	.015	"
2-28-62	.018	.009	.019	"
3-1-62	.017	.008	.014	"
3-6-62	.019	.007	.018	Ra. Temperature
3-7-62	.017	.008	.016	"
3-8-62	.017	.009	.015	"
3-12-62	.017	.009	.017	"
3-13-62	.018	.008	.014	"

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