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Mr. Mario J. Sanguinetti
Technical Information Division
Sandia Corporation
Sandia Base
Albuquerque, New Mexico

Dear Mr. Sanguinetti:

Attached is a summary of Weapon System Accidents involving reservoirs to be added to the summaries given in DAMSUL Meeting Number 8. We were not clear as to your intentions of combining Appendix B with A and therefore are submitting individual summaries for each appendix as given in Meeting No. 8.

If these data are not adequate or you prefer a different summary technique please let me know.

Very truly yours,

Original Signed By
N. E. ROGERS *for*

T. Ben Rhinehammer, Manager
Analytical Section
Development Department

MOUND DECLASSIFICATION REVIEW	
1ST REVIEW DATE: <u>01/16/61</u>	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <input type="checkbox"/> AOC <input type="checkbox"/> ADC <input type="checkbox"/> ADD	1. CLASSIFICATION RETAINED
NAME: <u>Robert Taylor</u>	2. CLASSIFICATION CHANGED TO: _____
2ND REVIEW DATE: <u>2/21/61</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>Robert Taylor</u>	4. COORDINATE WITH: _____
NAME: <u>Robert Taylor</u>	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY): _____

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Attachment (1)

Distribution:

- 1A - M. J. Sanguinetti, Sandia, Albuquerque
- 2A - L. B. Gnagey
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APPENDIX A

Weapon System Accidents

<u>No.</u>	<u>Nature of Accident</u>	<u>Approx. Date</u>	<u>Number Involved and Type</u>	<u>Reservoir Type</u>
8	Plane crash	1964	4 - MK-43 1 - BA-53	1C-20 2A-24
9	Aircraft Fire	1965	16 - Mark 43 Mod-0 to Mod-1 Kits 1 - Mark 53 Trainer 3 24 68	MC-1188 1C-20 1A

APPENDIX B

Summary Data on Weapon System Accidents

<u>No.</u>	<u>Overall Damage and Damage to Gas System</u>	<u>Notes on Weapon Environment During Accident</u>
8	Forward weapons destroyed or severely burned, aft weapons relatively free of severe damage. One type 1C reservoir ruptured, all thermal plugs melted in other four reservoirs.	Aircraft loaded with 14,000 gallons of fuel was demolished by fire. Two forward MK-43 weapons were subject to severe fire damage by burning HE.
9	No operational weapons were involved, however, there was one trainer weapon aboard. Items involved received various degrees of damage: one 1188-A ruptured, 40 squib valve thermal plugs vented.	All items exposed to flame, heat or fire extinguishing foam in varying degrees.

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APPENDIX D

Accidents Involving Atomic Weapons and Reservoirs

No.

- 8 A B-58A aircraft, carrying four MK-43 bombs and a BA-53 weapon was destroyed by fire following a taxiing accident at Bunker Hill Air Force Base, Kokomo, Indiana. The aircraft loaded with 14,000 gallons of fuel, was demolished by fire. The HE and pit of the BA-53 were destroyed. The HE of the two forward MK-43 weapons was also destroyed by burning. A 1C-20 reservoir from the left forward weapon ruptured and the secondary broke open and partially burned. The two aft MK-43 units were intact showing little interior damage due to heat. Four 1C-20 and one 2A-24 reservoir were involved. All squib valve thermal plugs vented.
- 9 A C-124 Globemaster transport aircraft caught fire during a ground refueling operation at Wright-Patterson Air Force Base, Dayton, Ohio, suffering extensive damage to the tail section. The cargo consisted of one Mark 53 trainer weapon, 16 Mark 43 Mod-0 to Mod-1 kits, 178 neutron generators of various types and 95 D/T reservoirs. Included in the reservoir inventory were 3 MC-1188, 24 1C-20 and 68 1A geometries. One 1188-A reservoir ruptured and the thermal plugs on 40 squib valves vented.

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