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#### NARRATIVE SEQUENCE OF EVENTS

On 4 December 1964 the missile combat crew at LCF Lima One, 68SMS, reported a fault in the Inner Zone security system at LF Lima Two to 44MIMS Job Control. On 5 December 1964 at 1200 hours MST at two 44MIMS Communications Repairmen was dispatched to Lima Two to troubleshoot the system and to rectify the discrepancy.

The team, comprised of A2C both of 44MIMS, arrived at Limi Two A2C(b) (6) The missile combat crew on duty at Lims One we s (MCCC) and 1st Lt (b) (6) (DMCCC), The at 1415 hours MST. comprised of Capt(b) (6) team established communications with the MCC. Permission was then requested to break outer zone security. It was granted and the airmen proceeded to open the "A" circuit security pit. (Plug Five was discovered laying disconnected at the bottom of the pit, but was determined to have had no bearing on the events to follow.) The personnel access hatch was then opened to check the magnetic switch and to continue the troubleshooting. Subsequent checks eliminated the magnetic switch and the inner zone security drawer as defective, so this isolated the fault to the Inner Zone Loop. The first item to be checked for proper operation in the loop was relay "K-1" located in the security alarm control box.

NOTE: The Airmen were using the aural method of checking the relay. That is, fuse "F-1", also located in this control box, was removed from the circuit momentarily; then reinstalled. A "good" relay "clicks" audibly when the fuse makes contact in its holder.

Airman (b) (6) lacking a fuse piller, utilized a screwdriver to pry one end of the fuse from its clip. When the fuse was pushed back against the clip, the Airman did not hear the "click", so he repeated the procedure. Still not certain he heard the "click", he again pulled the one end of the fuse away from the clip and then pushed it back to make the contact. At 1500 hours MST, simultaneously with the making of this contact, a loud explosion occurred in the launch tube. At the same time the Missile Status Indicator Launcher Panel in the Launch Control Center indicated a fault and a warhead alarm for Lima Two.

The Airmen expeditiously evacuated to the soft support building where they immediately established contact with the missile combat crew at the LCF. The information was passed to the 44SMW Command Post. SACF 340 was executed and SACR 355-3 actions were initiated. At 1529 hours MST, the Airmen were authorized by the 44SMW Potential Hazard Team to re-enter the launcher to reconnoiter. A rapid visual inspection was made and heavy gray smoke was reported in the launch tube. They were instructed not to re-enter the launcher. At 1543 hours MST, a Potential Broken Arrow was declared and a 2000 foot cordon was established around Lima Two by the Mobile Strike Team dispatched from Lima One.

TAB A-1

Page 1 of 2 Pages

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HQ AFSEC/JA, October 2015 TAL HANDLING REQUIRED, SEE A 127 4)

Two non-commissioned officers from the Technical Analysis Division and one from the Missile Safety Office were dispatched to the scene via helicopter. They were granted permission by the SAC Potential Hazard Team to enter the launcher once more to reconnoiter. They entered at 1705 hours MST and discovered that the re-entry vehicle was not longer atop the missile. An immediate evacuation was effected and the information was relayed to the Potential Hazard Team at the Wing Command Post.

It was subsequently discovered that the explosion, a re-entry vehicle retro rocket firing, had caused the re-entry vehicle to separate at the ball lock interface of the spacer assembly and topple approximately seventy-five feet to the floor of the launch tube.

TAB A-1

Page 2 of 2 Pages

## FINDINGS AND RECOMMENDATIONS

PRIMARY CAUSE: Personnel Error, in that a maintenance technician inadvertently shorted a plus battery potential to ground. This application of plus battery voltage coupled with the fault in the retro cable connector provided a path for sufficient current to flow and ignite the retro rocket. The technician did not use the authorized, available tool to remove the

A/F Nr. 1: Launch facility re-entry by the two maintenance technicians ADDITIONAL FINDINGS: was ordered without adequate protective and monitoring equipment.

(b) (5)

A/F Nr. 2: The electrical surge arrestor access panels were open to the accident, at the time of the accident. While this did not contribute to the accident, open access panels compromise radio frequency interference specifications

for the Minuteman misside.

TAB A

Removed by direction of HQ AFSEC/JA, October 2015 A/F Nr. 3: During the course of the investigation a locally designed checklist was found which was used to check the inner zone security systems on a one time basis at all launch facilities. (Performed at Lima-Two 8 November 1964) This checklist was designed, primarily, to find jumper wires which had been placed in the system presumably by the contractor during the assembly and check-out phase. The checklist was found to be technically and typographically incorrect. The use of the checklist was

(b)(5)

A/F Nr. 4: The existing retro rocket circuitry does not provide enough protection against short circuits.

(b) (5

A/F Nr. 5: Present method of testing the K-1 relay by removing the F-1 fuse is unsafe.

(b) (5)

(b) (5)

L-2 SEQUENCE OF EVENTS ON 5 DEC 64 N 2 2100Z Amn (b) (6) and (b) (6) arrived at L-2 (Site Condition-Strategic alert, VRSA 2, 40T) Site penetration began. Plug "5" found disconnected from "A" circuit. 21382 Team chief reported missile safe (SCS installed) IZ Security
System checkout started, OZ and IZ drawers checked OK on portable
fault locator. Pulled F-1 fuse to check K-1 relay
Fig 4-4, Pg 4-10) three times. S 2200Z Explosion occurred. (After fuse replaced third time) LCC received indication of NO-GO fault at L-2 (SA out, warhead alarm and fault light illuminated).  $\frac{22012}{3.01} - \frac{A2C}{SSB}$  reported explosion and smoke in the launcher from the 22022 WCP noticed. SAC Form 340 completed. 3:02 Strike team dispatched from L-1 to L-2. 3:02 2208Z Strike team arrived at L-2. 2225Z SACR 355-3 action initiated. 3:25 2229Z Amn (b) (6) and (b) (6) were asked to re-enter launcher. No damage 2243Z LCC noticed potential Broken Arrow had been declared. 3:43 2250Z SMSgt(b) (6) and MSgt(b) (6) reported to CP. 3:50 8 8 2325Z Maj (b) briefed 355-3 to higher headquarters on his analysis of the situation. "Appears that critical leads disconnect squib inside G&C can has fired. Loss of warhead monitoring. Believes we do not have a hazardous situation. Recommends shutdown of DC to DC converter in security system. No need to shutdown site power." 2330Z Chopper enroute to L-2 with Sgts 0 2346Z Col Fall queried for permission to let TAD and Safety enter LF 4146 upon arrival and remove fuse to disable DC to DC converter. 23542 - Maj (b) priefed COANA (S me as 2325). \_ Permission granted by SAC for personnel to enter launcher. 0005Z Sgt (b) and crew cleared to enter inspection (Team briefed by Maj (b) site and make a visual 0007Z Sgt 0 reported via VMF radio that all personne were 5:07 evacuating the launcher. reported the following observation at L-2 to WCF via telephone: OGE power lamp on programmer group - OFF. Section pressure gauge on G&C chiller -G&C umbilical - normal configuration. RV - missing. Removed by direction of TAB 4-2 HQ AFSEC/JA, October 2015 of I Page

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PAGE 2 RUWHEL 3D UNCLAS

PAGE 2-12, STEP 5 CONTINUED, REMEDY C-2. DISCONTINUE USE OF

PARAGRAPH C-2 OF STEP 5 IN FIGURE 2-7 OF T.O. 21M-LGM3@A-2-19

IMMEDIATELY. FUSE F-1 FIGURE 4-4 ON PAGE 4-1@ WILL NOT BE USED TO

CHECK OPERATION OF INNER SECURITY. DISCONNECTING PLUG P-1 ON

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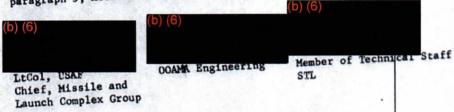
TAB 1-1

Page 1 of 1 Pages

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### TEAR DOWN REPORTS

- 1. All representatives of AMA's and engineering agencies agreed to take follow-on action with their home offices to formulate test plans/ instructions and furnish shipping instructions to the 44th Strategic Missile Wing for the following items:
  - a. Missile
  - b. G&C Section
  - c. Autocollimator
  - d. R/V Residue
  - e. Retrorockets
  - 2. Teardown reports will be furnished activities, in accordance with paragraph 5, Attachment 2, AFR 127-4.



### OUTSTANDING TOTO'S (Not Complied With)

### Launcher Facility L-2 and LGM30B, Number 64-006

<u>1010</u>	TITE .
1. 21M-LGM30-612	Control, Exhaust Nozzle
2. 21M-SM80-519	Removal Vortex Damper Seals on Brine Chiller
3. 11G2-10-5-509	Missile Guidance Set, Mod Computer
4. 21M-LGM30-598	Mod of Security and Alarm Set Delete Sensor and Lock Indicator CKTs.
5. 21M-LGM30B-524	Install Bolts and Washers on G&C and Bd Stage Motor.
6. 31X4-1-515	Launcher Cable Assy Set
7. 31X2-32-3-510	Reduce LF DAC Noise
8. 35M1-1-504	Mod Launcher Closure Actuating and Locking Mechanism.
9. 3 <b>5E9-</b> 35-506	Guidance Section Liquid Cooler
10. 49411-7-506	Guidance Section Liquid Cooler Addition of Neutral Wire
11. 2K-SRM57-503	Retrofit Stage III Rocket Motor
12. 2K-SRM57-507	Replace Frangible Sector Retaining C
13. 2K-SRM57-508	Revise Thrust Termination Shield
14. 2K-SRM57-524	Golor Code A/D Switch
15. 6K10-3-506	Replacement of Attaching Screws on Exhaust Nozale Control
16. 6K10-3-505	Modification of Flame Deflector Support Ring
17. 6K10+3-509	Addition of Wafer to J-2 Connector
18. 6K10-3-510	Addition of Wafer to J-2 Connector

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Page 1 of 2 pages

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### Warhead (RV)

### <u>1C10</u>

1. 11N-RV11-506

2. 11N-RV11-505

3. 11N-RV11-511

4. 11N-RV11-514

5. 11N-RV11-517

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Operates multimeter	+		+	$\dashv$		-						$\Box$				4
AN/PSM-6																4
Troubleshoots, removes & replaces OZ receiver			T	T								$\dashv$	+	+	7	
									1	H	+	+	+	$\dashv$	+	4
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			+	+	-	-	+	+	+	+	+	+	+	+	4	
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TOTALS	+	+	+	+	+	+	+	+	+	4	+	+	+	1	1	
(b) (b)	6)	13		Ė	+	a. scc	CALL STATE OF STREET	$\perp$		4	9. NA	1	1	1	12	2
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SSgt, 44SM			C Bally								11			*		-
SSgt, 44SM											1	1		1		

HQ AFSEC/JA, October 2015

Ref: 1. 44SHW OPS PLAN 419-64 2. 21M-LCP:30A-2-10CL-1

C a (III) Did not use hard hat chin strap ascending SSB ladder. Ref: #1 C a (III) Did not use safety belt when installing PAH safety stops. Ref: #2

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SEC/JA, October 2015

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DD Form 1350, 1 Dec 21M-LCM30A-2-10CL-1, 33A1-12-2-1, 1 Aug 6 21M-LCM30B-2-4-1, 1 TASKS oubleshoot & repair 00 curity system AN/GSQ-	Feb 64,	No SAFE	Chan	ge	LIABILIT	14	e.	ORIEN P	EQUIP	I.	PARPAR. 9	OUENCE .	. 3111.		COMMEC. P	•
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21N-LGH30A-2-10CL-1 21N-LGH30B-2-4-1 Ref: 1.

- B c Did not know location of gauge PG 30 in SSB (step 37 of opening access hatch)
- Bc Did not know location of ballistic gas generator (step 3 of securing equipment room) Ref 1
- Dc During steps 11 & 12 of checkout procedures, airman switched to 02 instead of portion of PFL selector switch. Ref # 2

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# HEADQUARTERS FIFTEENTH AIR FORCE (SAC) UNITED STATES AIR FORCE MARCH AIR FORCE BASE, CALIFORNIA

SPECIAL ORDER

11 December 1964

M-90
The verbal orders of the Comdr, 5 Dec 64, appointing a board of officers, which occurred organizations indicated, to investigate the nuclear incident which occurred at site L2, Ellsworth AFB, South Dakota, on 5 Dec 64, is confirmed. This board will determine the cause of the accident/incident, make recommendations to prevent recurrence, and prepare the accident/incident report as ions to prevent recurrence, and prepare the accident/incident report as ions to prevent recurrence, and prepare the accident/incident report as ions to prevent recurrence, and prepare the accident/incident report as incident 

voting members. 341 Strat Msl Wg, President 360 (6) 44 Strat Msl Wg, Recorder \* COL JAMES V FARLEY 341 Strat Msl Wg, Chief, Msl and Launch Complex Cn/Swintenance Insp and Records Gp/Investigating Officer LTCOL \* LTCOL 44 Strat Msl Wg, Maintenance Insp \* LTCOL Coordinating B21 Med Gp, Launch Ops and Witness Gp MAJ and Records up 341 Strat Msl Wg, Chief, Nuclear \* MAJ Det 1, 2701 EOD Sq (AFLC), Explosion MAJ Weapons Investigation Gp 341 Strat Msl Wg, Chief, Launch Ops Representative Ordnance Dispo 44 Strat Msl Wg, Advisor/Nuclear CAPT and Witness Safety

FOR THE COMMANDER



DISTRIBUTION M and M (4)

Major, USAF Directorate of Administrative Services

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TAB P

<u>CH</u>	RONOLOGICAL SEQUENCE OF EVENTS FOR A
210	RONOLOGICAL SEQUENCE OF EVENTS FOR L-2, STARTING ON 5 DECEMBER 64  OO A2C(b)(6) and A2C(b)(6) arrived at L-2 to check alert, VRSA channels 2,40 and safe tone) Site Penetration
213	Team chief (Amn (b) (6) reported missile safe (Safety
2138	Checkout of IZ security system started. OZ and IZ drawers checked O.K. on portable fault locator. Pulled F-1 fuse figure 4-4, Page 4-10) three times. (21LGM30A-2-19, simultaneously with-or very shortly after replacing the
2200	Explosion occurred. LCC received indications of a No-Go and fault warning light illuminated.)
2201	A2C(b) (6)  reported explosion and smoke in the launcher.  line.  report was made to the LCC from the SSB via the SIN
2202	WCP notified. SAC Form 340 completed.
2203	Strike team dispatched from L-1 to L-2.
2208	Strike team arrived at L-2.
2225	355-3 started, Commanders and Safety at Wing Command Post P-4-11 Inter Zone Security 21M-LGM30A-2-19 Installing DAW Checking Out Pins 1 6 5
2229	Amr (b) (6) and (b) (6) were asked to re-enter the launcher established with higher hand. (Nothing found) 355-3
2300	Arrangements set up for Sgt (b) (6) and Sgt (b) (6) and Sgt (b) (6) and Sgt (b) (6) and Sgt (b) (7) and Sgt (8) and Sgt (9) (9) (9) (9) (9) (9) (9) (9) (9) (9)
2315	EMT from K-5 enroute to L-2 with work cage and necessary equipment. EMT team dispatched from base.
2316	Two men in LFSB monitoring sin line - CDF road block established 2000' radius.
2325	Maj(b) (6) briefs 355-3 higher headquarters - on his analysi- inside G&C can has fired. Loss of the second of the
HQ AFSEC/JA, October	to shut down site power
	POR OFFICIAL WAR OWN (n

Report from CP that chopper is enroute and will arrive in 2330 30 minutes. 2345 VRSA reports channels 5, 6, 7, 25, 34, 40. Col Fall queried for permission to let TAD and safety enter LF upon arrival and remove fuse to disable DC to 2346 DC converter. Maj(b) (6) briefs OOAMA same as above. (2325) 2354 Personnel at LF awaiting permission to enter LF. Chopper 2400 arrived at LF L-2. 2403 Permission granted by SAC for our personnel to enter launcher with safety gear. b) (6) briefs Sgt(b) (6) at LF to check these items; 2410 Cocked GGC umbilical disconnect, tight retraction cable, and stage separation. 2412 Medics arrive at LF area and standing by. Sgt (b) (6) reports by VHF that personnel should fall back beyond 2000' radius - launcher situation looks bad - RV off 2415 of G&C section EOD personnel on way - all traffic in area has been blocked -2420 all personnal have withdrawn from the area beyond 2000' Bent Spear and 55-30 initiated. Sgt(b) (6) reports by phone from LCF that entire first level 2430 opposite collimator slot is covered with grey dust. RV separated approximately four inches above RV skirt which is still attached to G&C section. 2435 Disaster control for base activated. Radioactive monitor to be dispatched immediately. Doctor is at LCF. All exposed personnel were instructed to take showers. Will be given a medical check by Doctor. 0015 Radiation monitoring team dispatched. 0034 Apex Beeline report (Conference call to USAF, SAC, and 15AF Command Posts) was transmitted. 0050 SAC requested OOAMA to send R/V specialist. SAC requested EOD people from OOAMA. 0110 EMT and MMT teams arrived at the LF and are standing by. 15AF and SAC recommend we hold off until daylight hours before 0120 taking any further action, such as dispatching the EOD personnel. !SAF and SAC reconsidered and concur in our recommendation to dispatch EOD immediately to check for contamination Removed by direction of

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HQ AFSEC/JA, October 2015

	(b) (6) from
0125	Mark II team to experts, Col Taylor and Maj
VII.	saama will depart for EAFB within the hour.
0152	Disaster control personnel team put on 15 minute alert.  Fourtment in place and ready for departure from base.
0155	Request from 15AF as to availability of 21000 series tech orders. We have all Unclas 21000 series, but not all Classified. Recommended that they bring along the Classified 21000 series.
0200	Col Robinson requested permission to send in a Radiation Monitor team to check for contamination in the launch tube, and if none detected, would like to send in maintenance personnel to look only. Standing by. Major (b) (6) described his proposal.
0211	Col Seigel, SAC granted permission.
0242	CBR team entering LF this time.
0251	EMT on site with CBR team (on comm net).
0300	Above ground clean of radioactive condition.
0347	CBR team entering below ground with T-290 and 270 test equipment. Negative reading with 270. Negative reading level 1 and 2 (All possible radioactive checked). Smell of burnt rocket motors - possible retb. R/V not visible at bottom of silo on its side.
0431	CBR with drawing returning to LCF pending.
0500	arrived in conference room firom OUARA.
6 Dec 64 1830	posals to safe the missile and reconnissance the launcher posals to safe the missile and reconnissance the launcher posals to safe the missile and reconnissance the launcher
7 Dec 6	0300Z the net was reopened. The SAC, 15AF and board per were notified of the results of the reconnoiter. Everything were notified of the results of the reconnoiter.
184	OOAMA personnel on our these personnel is given to all responsibility for the recovery operation is given to all responsibility for the AFLC; that is, EOD personnel. Overall responsibility for the AFLC; that is, EOD personnel. Overall responsibility for the launch facility is still retained by SAC. All participants launch facility is still retained by SAC. All participants concurred in Col Farley's recommended course of action. The missile will not be removed. The EOD people will proceed to the
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bottom of the tube and separate the R/V from the warhead and bring them separately to the surface. We were directed to open the 355-3 net again during the R/V removal operation.

1908 Col Cole recommended closing the net. All concurred.

8 Dec 64		
2040	Contact with L-2 established for monitoring of decent	
	Contact with L-2 established for monitoring of decent into LF for inspection. Capt (b) (6)	
	will make initial descent.	- 0

- 2048 Descent began at this time.
- 2055 Capt (b) (6) and Mr (b) (6) leaving work cage to make their inspection of the R/V. Inspection of the scratches on Stage II and interstage area was made on descent. Work cage was raised to allow more room to work in.
- 2100 T-290 check being made at this time and determined negative (Alpah Rad)
- 2107 Reported by L-2 to be in a safe configuration.
- 2108 Gamma background is negative.
- 2111 Structural damage apparent. Further inspection to determine final status.
- 2114 Inspection revealed structural damage to the extent that separation of the two items is not feasible or practical at this time.
- 2120 Additional internal damage noted during inspection which precludes possibility of separation. Item will probably be raised with cargo net sling.
- 2122 Upon removal of R/V, final, Rsp will have to be accomplished. This will be done at the MMS area.
- 2126 Recommended at this time to remove R/V in one piece and perform RSP after return to base.
- 2153 Recommendation was made to obtain a container for an earlier type R/V which has the same basic diameter and will probably be the best device for returning item to the base.
- 2159 Dimensions of Titan R/V cradle requested and being obtained.
- 2202 Mr (b) (6) (SANDIA Corp) and the photographer descending into hole at this time.
- 2226 Col Fall called Col Cloyd on 355-3 for status report, and recommendations so far. Col Fall brought up to date and advised that prior to proceeding past the planning stage he will be contacted and advised by Col Cloyd. Col Fall #480

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advised that a 11A shipping can has been requested from F E Warren AFB and T-29 from Lowry will pick up at approximately 1730. CNX at 2232Z. 2234 Verification that only one retro rocket has fired. 2245 LtCo1 hole at this time. and Mr(b) (6) are descending into the 2309 LtCo1(b) (6) and Mr (b) (6) and photographer are out of the hole at this BISO. 2315 out of the hole and place the R/V, net and all, into Mr shipping container in order to transport back to the base. descending into the hole. Communication between L-2 and Command Post terminated. Discussion was started on sequence of events which have occurred up to this time. Proposed checklist was read which contained the planned steps and methods to be used. This was read which contained the planned steps and methods to be used. This was read by Col Farley. Mr (b) (6) (NE OOAMA) (NE OOAMA) Col Cloyd directed that the 355-3 net be opened and the planned procedures as outlined be explained, requesting (NE OOAMA) verification and approval prior to proceeding. These are 1. Condition of weapon a. Electrical and Nuclear Safe Structurally unsound so normal handling equip-2. Operations Proposed a. Lift R/V in nose down vertical position, encased (1) Identical nets have been test w/approx 1500# wt. (present weight R/V 750# + or-). Additional support for R/V will be provided by web straps around and lengthwise. b. Lift will be provided by MC-1 crane (AIC Kittrel-Crane has been QC&E capacity tested @ 7500#. (2) Crane operator best available. Secondary support will be provided in case crane, cable or net failure by 1" Hemp rope 3. It is planned to remove weapon from silo as is. a. Further RSP will be accomplished after removal from silo in empty magazine. Removed by direction of

TAB V

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2317

2355

9 Dec 64 1600

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Weapon will be radio graphed prior to determining final RSP required and to determine safe shipping configuration.

c. To prevent chance of static electricity or circulatory ground currents during hoisting procedures. The warhead case will be grounded through a 1,000 ohm externally attached resistance and ground cable. Grounding apparatus will be connected between crane cable and warhead

The 355-3 net was opened with Col Fall (SAC), Col Cole (15AF) Col Taylor (00AMA) and Col Kadaira (BSD). Col Cloyd opened by explaining the status as it stands regarding the changes 1630 which have taken place. The net was turned over to Col Farley who read the proposed procedures. The existing conditions who read the proposed procedures. The existing conditions were read prior to the procedures outlined by checklist outline. The strip conditions then read the procedures he proposes. Also stating for (BSD) and Col Taylor (OOAMA (17057) and re-read his proposal. Capt (D) (G) followed col Cloyd re-iterated the position of the strip condition and 44th TAD Maj (D) (G) and 44th TAD Maj (D) (G) to Col Fall, Col Kadiera strip and Mr (D) (G) and talk to his representatives, Capt (D) (G) and God and Col Cloyd queried Col Taylor (OOAMA) as to feasibility for obtaining additional gear case motors. Col Kadiera stated that they did not want power to hole. Mr (b) (6) replied adding the fact that there are no means available to provide isolated lighting and ventilation as well as communication. Maj explained the available lights in the hole for work procedures Col Dawd (15AF) stated it was felt that using means other than what is in site provided would induce more interference. Col Kadiers (BSD) queried as to feasibility of safing retros prior to proceeding. Col Cloyd stated that EOD personnel available did not want to touch these at this time since they were not sure of their condition. (1745)

- Proposal was reread by Col Farley to 355-3 net. Mr (b) 1750
- 1756 SAC has given approval to proceed with recovery as outlined. Net will be re-opened at that time.
- 1821 Recovery team has arrived at site.
- 1855 and SMSgt b) (6) arrived at site by chopper. 1902
- (b) (6) and Mr (b) (6) safing operations. They were advised that they were cleared to
- Capsule reported that fault light for L-2 was out for 1 minute. 1905

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1935	Second chopper enroute to L-2 with equipment.
1941	2018년 1일 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12
1949	Closure is completely open and safety barriers are being installed.
2005	355-3 net being re-opened at this time.
2007	Capt (b) (6) and Capt (b) (6) descending into tube by way
<b>2</b> 017	Capt (b) (6) and Capt (b) (6) on bottom of silo. Gamma check was made showed negative. Maj (b) (6) proceeding to silo bottom to install nozzle covers. Capt (b) (6) reports that alpha
2029	Nozzle covers have been re-installed.
2034	Large net being lowered by MC-1 crane.
2044	Capt (b) (6) requested that all unnecessary personnel be cleared out of the silo.
2052	Nets for R/V raising are on bottom of silo. Crane hook being removed.
2102	Capt(b) (6) reported that he had removed all impact
2109	Capt (b) (6) states that they are preparing to move the R/V away from the wall, forward and try to lift it so that they can place the net under it.
2112	R/V has been moved forward 6° and 4" away from silo wall.
2115	Work cage being brought up. Topping and padding being performed on R/V. This involves all jagged edges.
2117	Mr(b) (6) (LRL) is at bottom of sile at this time.
122	Col Kilpatrick relayed progress to 355-3 net, monitor Col Fall.
128	Periodic radiation check at this time with T-290 at base of R/V - negative.
131	Reported personnel at bottom of sile are Capt (b) (6)  Capt (b) (6) Mr (b) (6) Sgt (b) (6) (b) (6) and (b) (6) Mc-1 hook being prepared for lowering into hole.
136	Jagged piece of R/V flare removed from R/V.
137	Col Taylor (Hill) requested confirmation that the 1000 okm resistor and grounding strap are installed prior to move sent.
	TAB V

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2138 Tape recorder tuned on, site communication monitor. 2146 Preparing to place web-strape under CG of R/V. 2152 Hook being raised very slowly checking for exact CG. Lowered for adjustment. 2152 Hook being raised and lowered slowly to locate CG. R/V is approx 8" off of silo floor net being involved to slip 2156 under the R/V. 2200 Tape changed. R/V being raised approx 4" more to accomdate mattress pad 2205 under R/V. 2207 R/V being lowered onto mattress pad into lifting net. 2222 Raise very slow to position R/V into vert position. This relayed to Col Fall, SAC. 2238 R/V beginning to raise up so that securing strape can be installed around cargo net to secure net and R/V. Resistor and ground strap to be installed as soon as R/V is vert. 2246 R/V is hanging vertical. 2255 Tape chg 2300 Direct chopper at L-2 on stdby to return to base. 2303 Col Fall advised that the last portion of raise operation may go into darkness. Advised that on site lighting is available and can be used. Col Fall and Col Taylor concur on continuing operation. Current status relayed to Col Fall. 2313 Preparing to install resistor and ground strap to R/V. 2319 Silo has been evacuated of all non-essential personnel. Flood lights are verified oper. 2321 being sent to ring for guidance purposes. Mr(b)(6)going topside. Resistor and grounding strap are verified connected at this time. Grounding connect on crane are being checked also. 2325 Three people are manning the dead man rope 2328 Start to raise R/V from silo. 2329+15Z Completely suspended clear of silo floor. 2330 R/V is not true vertical slight angle. Removed by direction of

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2331 12 feet off of silo floor and rising.

2332-5Z Approximately 3" and rising.

2332+58Z Approximately 5' and rising.

2333+40Z Approximately 6' and rising nicely.

2334+5Z Approximately 10' from bottom and rising. 2335+302

Stop operations.

2336+5z Up very slow. Dead slow.

2336+452 Stop.

> 2337 Up very slow.

2337+452 Stop.

2338+30Z Up slow.

23384502 Stop.

2340+32 Up slow,

2340+45Z Stop.

2341+3z Up elow.

2341+452 Stop.

2342+402

Up slow.

2343Z Approximately 16° from floor.

2343+302 Stop.

2343+502 Up Slow.

2344+102 Stop.

2345+152 Up slow.

2346Z

Stop. 2346+5z

Up slow. 2346440Z Stop.

2346+502 Up slow.

> 2347 Clear of ring.

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2347+452 Past the ring approximately 30' off the deck. Up fast. 2348+502 Half way up the tube. 2349 Approximately at platform. 2349+50Z Slow - clear - up fast. 2350 Over level #1 and rising. 2351+502 Release guide lines at bottom, transfer to top. 2352+152 R/V is now out of the tube. 2352+452 Swing and lowered to hold position on mattress. 355-3 net 2354+302 R/V is touching mattress padding at top of pad. 2359 Transferring the R/V into the R/V G&C van at this time. 2360Z Sgt(b) (6) directed to keep monitor of environmental control.

9 K-W heater will be in operation. 0009 Change of hoisting so that R/V G&C van hoist can pull it into 0020 R/V has been transferred completely to crane hoist, MC-1 has been disconnected and removed. 0024 SIN line net closed. 10 Dec 64 0830L Formulation of convoy plans was begun. Convoy was stated to be a normal type of convoy w/an EOD vehicle at the rear of the convoy trailed by a second Air Police vehicle. A man will ride inside the van with monitoring equipment and communications to the cab. The second AP vehicle was dispatched for the L-2 convoy. Discussion followed for missile safing procedures. Capt is to study a mockup prior to beginning any operation on the Ordinance items. This is to determine the steps and procedures he will use for his operations involving safing of the 0900 Col Kilpatrick was directed by Col Cloyd to contact Col Fall and Col Cole advising them of the intent and methods proposed. 0930 It was stated that the normal convoy route would be used to It was also determined that the 355-3 net would be opened at 1500 hours this date. This conference was closed at this

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1930	Contact w/SAC, 15AF and OOAMA advising them of proposed route, elements and departure time. Departed from L-2 at 1947+30Z. Estimated time in route 3 hrs and 20 min.
1940	SAC OK.
2145	Convoy approximately midway between site and main base
2153	355-3 net re-initiated at this time.
2212	Convoy approximately 7 miles from base.
2218+15	355-3 net open all concerned are on the net.
2219	Col Farley read the list of personnel and equipment required for the safing operation. The sequence of events are also read as outlined. Also the step by step procedures were available but not read.
2229	Col Fall asked for BSD feelings on recommendations.
2231	Col Fall verified that all concerned agreed upon the intended procedures. Proposed time for beginning of operations was 1500 Friday, 11 Dec 64.
2236	Col Fall and all others agreed to keep the net open until the R/V is in the igloo.
2237	Col Fall asked Col Farley to re-read the proposals as outlined emphasizing the portion where complete agreement was not emphasized.
2240	Verification of reasons for leaving power on in the site was asked for by (Hill) Col Taylor.
2245	Col Fall asked for clarification of power switching during shorting operations. This was verified.
2246	SAC concurrence given at this time w/request to re-open the net prior to initiation of activities in the morning.
2249	355-3 net closed except for Col Taylor (Hill) w/message for Col Kilpatrick.
2250	355-3 net closed.
11 Dec 64 1545	Col Cloyd called by Col Cole and determined that 355-3 net would not be opened for the operations this a.m., but the net would be informed and cancelled after the operation is completed by telephone.
1553	SIN lin to L-2 was opened at this time.
1555	Mr (b) (6) entering the LF and preparing to proceed w/outlined steps. Maj (b) (6) accompanied.
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1608	Maj(b)(6)  Mr(b)(6)  of missile and G&C as it is split open.  BSD be contained condition of G&C and
1611	reported that
	Mr (b) (6)
	of missile and C&C as it is presently. He also requested that that all civilian technical personnent of the contacted for any section is split open.  Section is split open.  Section is split open.  C&C and recommended removal that suggested that Mr (b) (6) endations and/or verification.
	Un contacted a 11 18 new and rece
	that all civilian technical personnel available locally be silo to instal.
	contacted for technical be contacted and/or verification
1724	contacted for any proposals that they may have.
	Maj (b) (6) and Mr (b) (6) preparing the also requested they may have.
1727	Pienawi.
	Col Farley called Col Kilpatrick and stated that civilian on the missile and also said that there was no reason to re-install the
	techs agreed that there was no reason to re-install the space on the missile and also said that there were some passive.
1728	tests (power off) that they wanted to perform.
	EOD team arrived at L-2.
1739	The state of the s
1745	Scounding Strape L.
1/43	Maj(b) (6) and Mr(b) (6) and covers are
	and covers and Mr (D) (6)
1749	are limental court
1756	Launcher closure Insulation
4/36	Closure opened.
1823	Launcher closure to be opened aprox 18 - 24".
	relayed by Col Kilpatrick as well as 65C info. Col Fall
1826	opied conversation.
M	(b) (6) This was
1	verified that bottles would not be removed at L-2, loalias advised for Colors
1920	se. would be removed afterward not be
<sup>1830</sup> Co	1 Dall leaved at L-2.
not	in the
	orioin to tole
At .	Dallas advised for Col Cole of this change, which was
1919 Al1	code of the proposed
1937	mance has been eas
Clos	this time step 2f, of the proposed plan is being performed.
2030	SIN line to h
2043	omm net re-established.
Maj (b	) (6) 15AF, called for info for Col Fall, Col Kilpatrick in in position and the lide.
releye	d current called for the
2047	status as of this or Col Fall Col
2049	in position and
Impedan	in in position and the lid has been opened.
2104 Store	opened.
Removed by direction of 28	ce checks being made at this time.
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2106	Step 2h completed, step 2i in progress.
2116	Step 2h completed, spacer is in the van at this spacer removed, completed. Spacer is in the van at this time.
2117	Lid being closed at this time.  355-3 net cancelled by Col Cloyd through Col Cole.
2118	Visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the bissile visual inspection did not reveal any damage to the bissile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual inspection did not reveal any damage to the missile visual damage to the miss
2123	Visual inspection did not reveal any damage to the Further checks, if necessary, will be determined by the Accident Investigation Board.
2126	SIN net was terminated.
NOTE:	See recovery and safing plans in Annex

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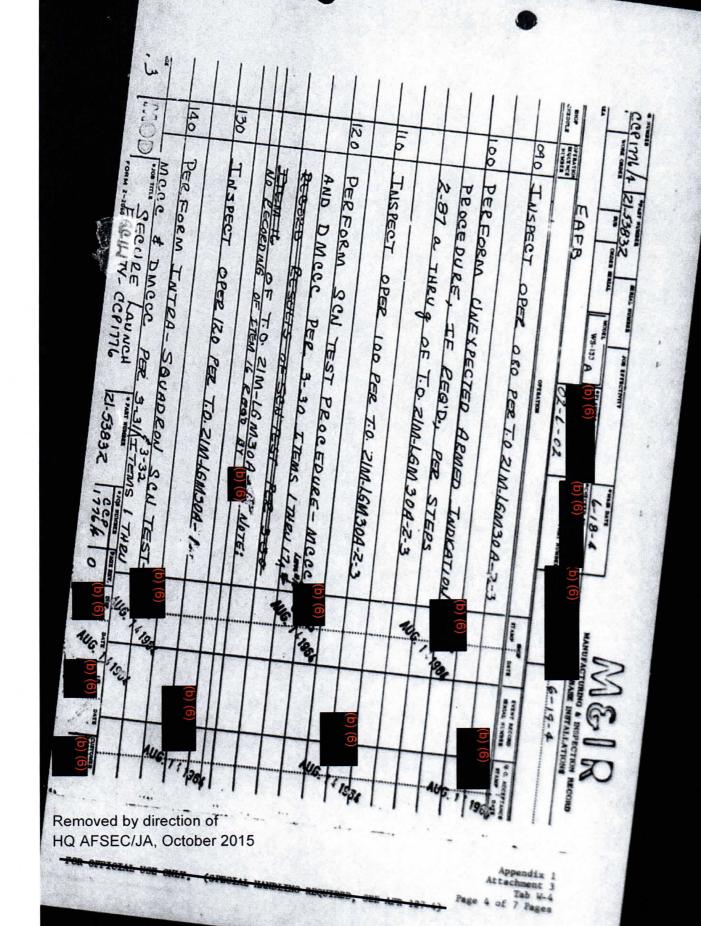
Page 13 of 13 Pages

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Appendix | Attachment | Tab W-4

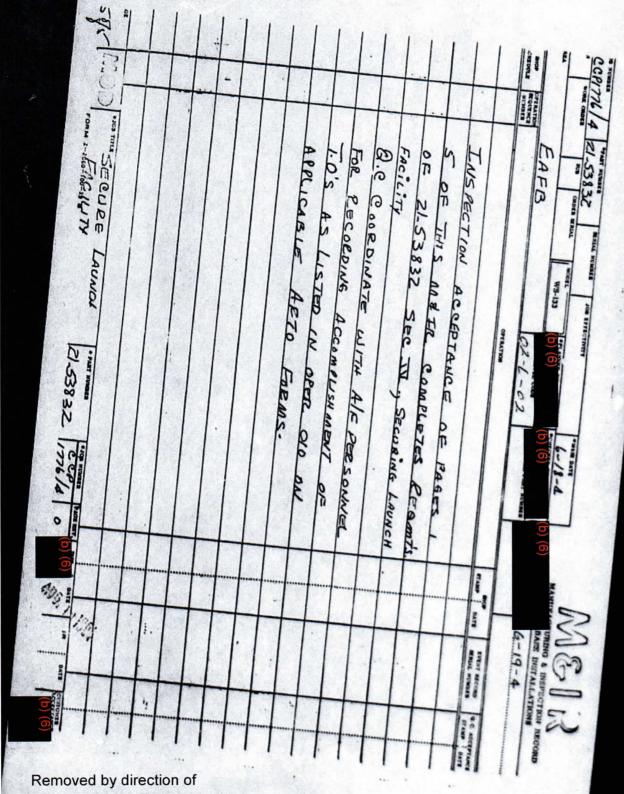
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EAFB	185%	SECURED SITE ! (REF. O 21 MH 6 M 30 A - Z-10, 3-15) NO.	4
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21.53832 4-18-4 MANUFACTU	AND DESPECTION RECORD	21.53832 4-18-4 MANUFACTU	CCP 1776 /4

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Appendix 1 Attachment 3 Tab W-4 5 of 7 Pages



AFSEC/JA, October 2015

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Append.x l Attachment 3 Try W-4

				SE	CURITY CLASSIFICA	ATION			
	JOINT MESSAGEFORM				-UNCLASSIFIED RFTO				
	SPACE BELOW RESERVED FOR COMMUNICATION CENTER								
	PRECEDENCE	TYPE MSG (Che		-	ACCOUNTING SYMBOL	ORIG. OR REFERS T	ro CL	OF REFERENCE	
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	AFPRO THE BOEING CO SEATTLE WASH								
	AIG 667								
	AIG 682								
41	821STRATAEROSPDIV ELLSWORTH AFB SDAK (MESSENGER)								
UNGLAG	HFTO 44DCMQ-M_								
FOR OO	NPM-1/OCAMA, INFOR	DH4G,	COL G	IDDING	S/SAC: DM4C	; IM4C/2AF/15A	F;		
	AF; MSQC(MM)/BSD: M								
	IG 667/AIG 682; 821S								
B. LG	M30B, MINUTEMAN SECU	RITY A	ND AL	ARM SE	T. C. 44	S264 - 64 -65.			
D. DO	-DC CONVERTER, PART	#10PE1	Q7, W	TUC # B	B280. E.	MPN 10PE107,	DATE	TIME	
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DD , MAY 55 173

REPLACES DO FORM 173, 1 OCT 49. WHICH WILL BE USED UNTIL EXHAUSTED

Attachment 4

TAB W-4

Page 1 of 5 pages

JOINT MESSAGEFORM - CONTINUATION SHEET SECURITY CLASSIFICATION FROM. 821STRATAEROSPDIV ELLSWORTH AFB SDAK OPERATE. I. 1EA, CODE P; FUNCTIONAL/OPERATIONAL CHECK. J. 1EA CODE P, REMOVED. K. 1EA, TOTAL. L. 15 MANHOURS. M. A COMM. TEAM WAS DISPAICHED TO TROUBLE SHOOT A INTER ZONE ALARM THAT HOULD NOT RESET. THE DC TO DC CONVERTER WAS REPLACED AND THE TEAM WITHDREW WITHOUT REING ABLE TO RESET THE INTER ZONE ALARM, ON THE SECOND DISPATCH IT WAS FOUND THAT THE REPLACED DC TO DC CONVERTER HAD 35V DC ON THE IMPUT PINS ONE & TWO, AND ZERO VOLTS ON THE OUTPUT THREE AND FOUR. THE CONVERTER WAS REMOVED AND RETURNED TO THE SMSB FOR MRTS ACTION. DUE TO THE NUMBER OF FAULTY DC TO DC CONVERTERS EXPERIENCED AT THIS FING THE TECHNICAL ANALYSIS DIVISION INVESTIGATED THE FAULTY UNIT AND FOUND TWO MAJOR DEFECTS. THE TRANSFORMER, MPN 13-20004, WAS MOT PROPERLY SOLDERED ON THE PRINTED BOARD. THIS TRANSFORMER COULD NOT HAVE MADE AN ELECTRICAL CONTACT DUE TO THE COLD SOLDER JOINTS ON ALL 8 PINS. THE FILTER, F310 60-MICROPARAD, 50V ATTACHED TO THE INPUT TERMINAL PIN TWO APPEARS TO HAVE BEEN INSTALLED BACKWARDS. TRICAL SECURITY MONITORING CAPABILITY AT LAUNCH PACELITY. O. THE OC TO DC CONVERTER COULD BE REPLACED WITH VOLTAGE DROPPING RESISTOR. THIS WOULD PROVIDE THE SAME PUNCTION AS THE DC TO DC CONVERTER AND AT A MUCH REDUCED COST. P. THE FAULTY UNIT IS BEING HELD FOR UR EXHIBIT PENDING SHIPPING INSTRUCTIONS. Q. ILT(b) (6) A4DCMIA, DUTY PH.(b) (6) HOME PH(b) (6) R. YES. 44DCHQ-M MR OF SECURITY CLASSIFICATION

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Attachment /

W4 W . LO . A

Page 2 of 5 pages

## CURITY CLASSIFICATION JOINT MESSAGEFORM UNCLASSIFIED EFFO. SPACE BELOW RESERVED FOR COMMUNICATION CENTER PRECEDENCE TYPE MSG (Chel) ACCOUNTING SYMBOL ORIG. OR REFERS TO CLASSIFICATION ACTION FROM: SPECIAL INSTRUCTIONS 821STRATAEROSPDIV ELLSWORTH AFB SDAK TO: OCAMA HILL AFB UTAH ENCRYPT FOR IMPO: SAC TRANSMISSION BSD NORTON AFB CALIF ONLY AFLC DEP TIG USAF NORTON AFB CALLY AFPRO THE BOEING CO SEATTLE WASH **AIG 667** AIG 682 821STRATAEROSPDIV ELLSFORTH AFB SDAK (MESSENGER) MCCAS ENTO 44DCMQ-N FOR CONPM-1/OONSI/OOAMA. INFO DMAC, COL GIDDINGS/SAC; DMAC; DMAC/ZAF/ 15AF; DMM2/8AF; MSQC(MM) BSD; MCNT/AFLC; AFIAS-R2/DEP TIG; DM/DCM/MM QCSE/AIG 667/AIG 682; 821SAB (DM). A.MISSION FAILURE. B. LGM30B MINSTEMAN, R1222/GSQ-74 (RECEIVER). C. 445M-64-103. D. SEMI-CONDUCTOR DIODE 1M21WE, WUC N/A. E. MPN 1M21WE, FSN 5960-615-5550. F. 07397. G. 07397. H. TOTAL FIELD 98 INCIDENTS - 72EA 029 (STRRENT INCORRECT), 25EA 242 (FAILED TO OPERATE), 1EA 070 AUG SYMBOL 44DCHQ-M TYPED NAME AND TITLE (Signa E TYPED (or stamped) NAME AND TITLE A1C WILLIAM J KILPATRICK PHONE (b) (6) Col, USAF SECURITY CLASSIFICATION Deputy Con mander for Maintenance

Attachment 4

TAB W-4

44 Strat Msl Wg

REPLACES DO FORM 173. I OCT & WHICH WILL BE USED UNTIL EXHAUSTED

Page 3 of 5 pages

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DD, 於門 173

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION

THOTASSIPIND HPTO

FROM

821STRATAEROSPDIV ELLSWORTH AFB SDAK

(BROKEN) 1-30 JUNE 64, TOTAL SHOP 100 INCIDENTS - 84 EA 029

(CURRENT INCORRECT) 9EA 242 (FAILED TO OPERATE), 7EA 127 (ADJUSTMENT IMPROPER), 1 - 30 JUN 64. I. 90EA CODE P (FUNCTIONAL OPERATIONAL CHECK), (BENCH CHECKED, REPAIRED) 6EA CODE F (REPAIR), 9EA, CODE C, REPAIR-DEFFERED), 1 - 30 JUN 64. K. 98 TOTAL. L. A TOTAL OF 1252

MANHOURS BROKEN DOWN AS FOLLOWS: 784 MH FOR CODE 11, 18.- (TRAVEL DRIVING), 196 MH FOR 01 (PENETRATE AND DEPART LF), 171 MH FOR 01

(FIELD REMOVAL-REPLACE, 101 MH FOR 01 (SHOP REPAIR). M. DUE TO THE HIGH FAILURE RATE OF THE DIODE 1N21WE WHICH IS UTILIZED IN THE R-1222 GSO/74 REGEIVER, EXCESSIVE MANHOURS ARE BEING LOST AND THE MISSION CAPABILITY HAS BEEN REDUCED. N. EXCESSIVE SECURITY SYSTEM MALFUNCTIONS ACCREDITED TO THE FAILURE OF THE 1N21WE DIODE. ITEM L DOES NOT REFLECT THE TOTAL MANHOURS EXPENDED TO GUARD LF'S WHEN THE SECURITY SYSTEM IS NOT FUNCTIONING. 0.

ENCRYPT FOR TRANSMISSION

(b) (5)

P. N/A.

Q. (b) (6) SSGT, 44MIMSM, DUTY PH (D) (6) HOME PH

(b) (6) R. YES.

SYMBOL 44DCHQ-M PAGE

NR OF SECURITY CLASSIFICATION

INITIALS

DD , 1044, 173-1

Attachment 4
TAB W-4

STATUS OF MAY 64 MESSAGE: 44SMW-64-65, DC to DC Converter, MIP 0064-3045 has been established.

STATUS OF AUG 64 MESSAGE: 44SMW-64-103, Diode, (Receiver Sec Sys) MIP 0064-4166R has been established. Date MIP established: 5 Aug 64. Estimated Closing Date: 15 Nov 64. Responsible Activity: NCTA-C (Mr. (D) (6)

Current Status: 31 Aug 64, Letter forwarded.
2 Oct 64, OGAMA/SAC MIP Review Action - No update.
13 Oct 64, No change.
31 Oct 64, No change.

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Attachment 4

Page 5 of 5 pages

THE OFFICIAL WIN COLU. (SPHOLAL MAINLING ENGINEERS OFF AND AREA

## APTO PORM 22

TO: COAMA (COMBTA)

FROM: AANDIS 44 SM DONG Ellsworth AFS, Shak

T.O. 21H-14H30A-2-19

Page 2-8 and 2-26

Para No. 2-35

Figure No. Fig 6

DEFICIENCE: Fig 6 Page 2-8 Troubleshooting Staps 1, 2 and 3, and 2 to 10 Total 2-26 Page 2-33 are no longer required because of TOTA 2116-16230-598.

RECOMMENSATION: Belate Troublesheating Steps 1, 2, and 5, Fig 6, Page 2-28. Delete Para 2-33, Page 2-26.

REASON FOR CHARGE: Incorporation of TCTO 21M-LOR30-398. Technical Data is not current with present configuration.

NOTE: TETO 21M-12M30-598 modifies the security and clara set P/N 3037-1665 by deleting of sensor circuit and lock indicator light circuit.

STATUS: Action still pending.

......

14 EA

Mark I for I made

## STATEMENT

TO: WHOM IT MAY CONCERN

I. MSgt (b) (6)

(b) (6)

SSgt (b)

has completed and is signed off on all four required. As SSgt (b) (6)

supervisor, I certify that he is fully qualified in all tasks on his JOTS package.

MSgr, (b) (6) 12 December 1964

Attachment 6

Page 1 of 1 Page

9th Weather Squadron - Det 12 3d Weather Wing (MATS) UNITED STATES AIR FORCE Ellsworth Air Force Base, South Dakota, 57706

REPLY TO

ATTN OF: WEA

6 December 1964

SUBJECT: Official Weather at Ellsworth AFB, 5 Dec 64

TO: Whom it May Concern

Following is the official weather at Ellsworth AFB, for
 Dec 64, as extracted from our records:

2155Z 8,000 SCATTERED, visibility 15 miles, Temperature 23 Deg., Dew Point 14 Deg., Wind Calm.

2.55Z 8,000 SCATTERED, visibility 15 miles, Temperature 19 Deg., Dew Point 13 Deg., Wind Calm.

- Weather reported for 2200Z by the site manager, for Missile Site LIMA 1, was SCATTERED clouds, visibility 10 miles, wind calm, temperature 24 Deg.
- 3. Due to the synoptic situation in existence on 5 Dec 64, for the area, the weather reported at Ellsworth AFB and Missile Site LIMA 1 is considered to be representative of the actual conditions for the whole 68th Missile Sq. Complex.

b) (6)

b) (6)

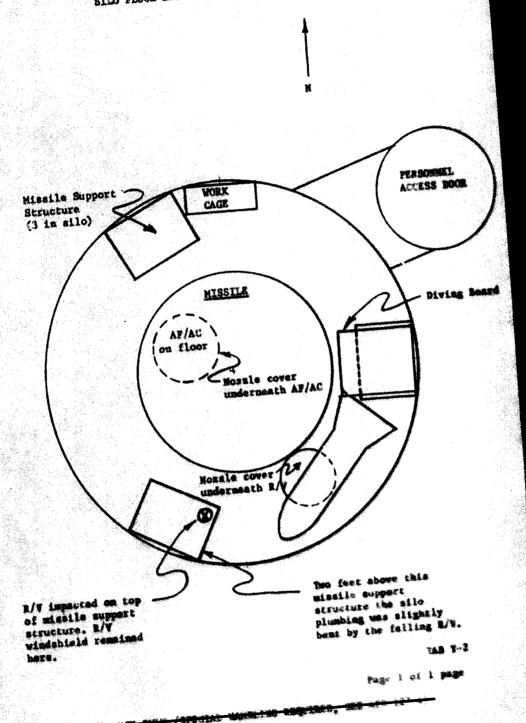
GAPT

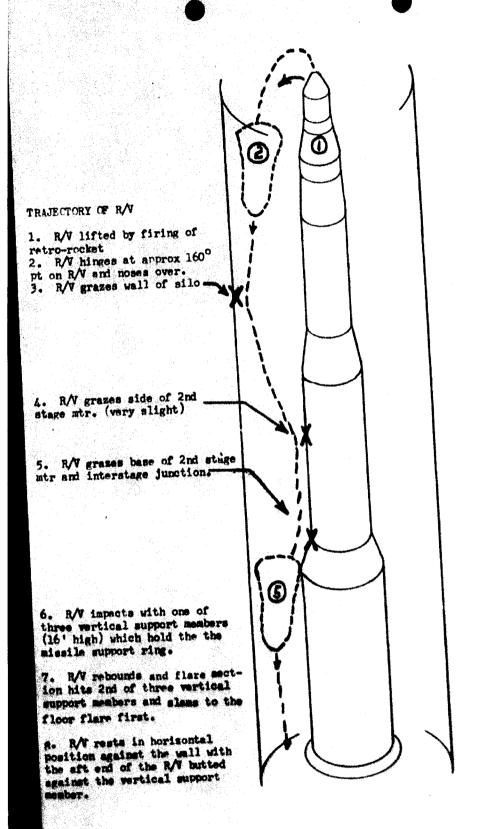
Lt Colo<del>nel, U</del>SAF Commander

TAB W-5

Page 1 of ' page

SILO FLOOR LOCATION OF R/V DEBRIS

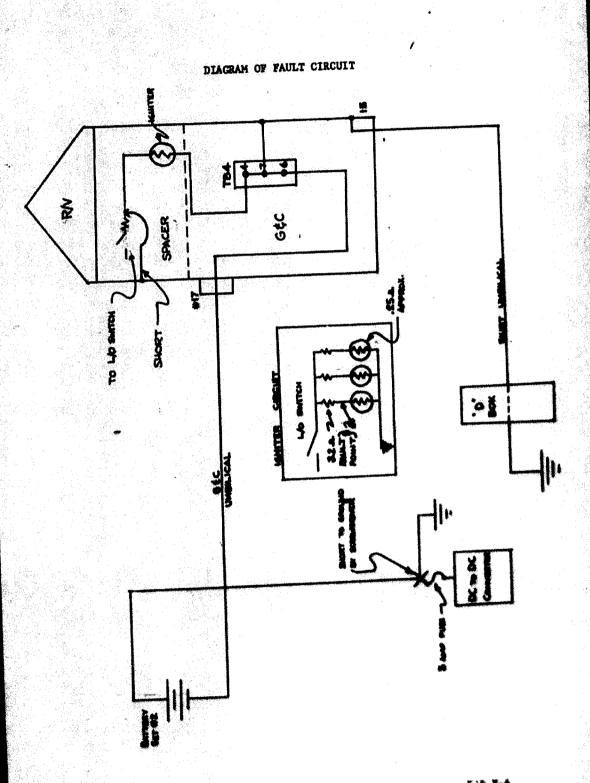




## PALLING PATH OF RY

TAS Y-) Page 1 of 1 page

THE SEPTEMBLE WAS CHEEK, (OFFICEAR IMPROVED ADVISORS, SEE AND LET'S)



44 Missile Maintenance Squadron 44 Strategic Missile Wing (SAC) UNITED STATES AIR FORCE Ellsworth Air Force Base, South Dakota REPLY TO

ATTN OF: 44MIMSM-MA

18 December 1964

SUBJECT: Multimeter

TO: Chairman 15AF Accident Investigation Board

- 1. This is to certify that multimeter ME-70A/PSM-6, AF04(694)107, serial number 5 was given a functional check by Base PMEL as directed on 17 December 1964.
- 2. The multimeter was found to be free from defect and recertified.

(b) (6)

(b) (6)

Major, USAF OIC, E & E Supervision

CERTIFIED TRUE COPY:

(b) (6)

Lt Col, USAF Recorder

Appendix 7

Attachment 3

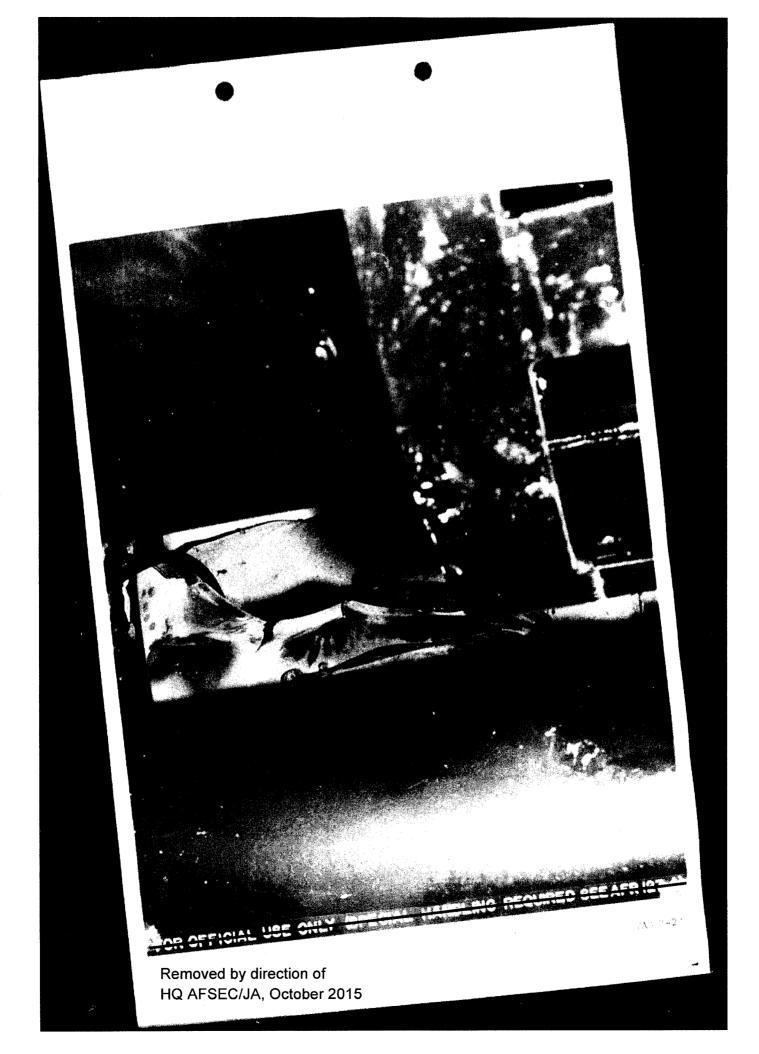
TAB W-11

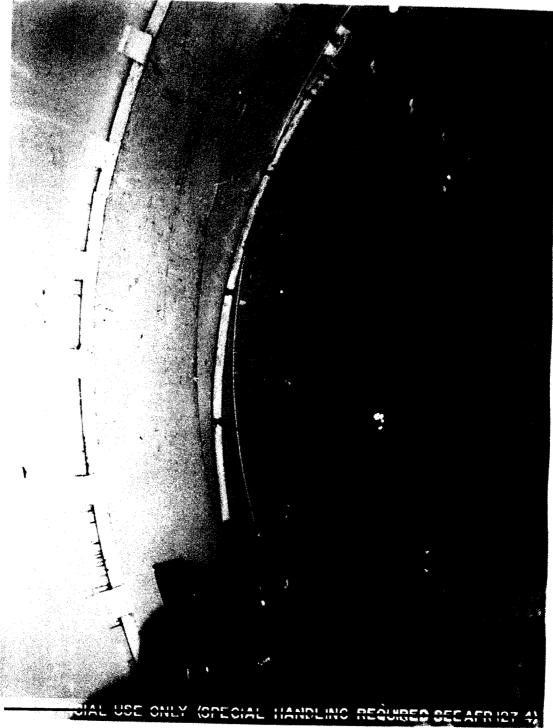
Page 1 of 1 page

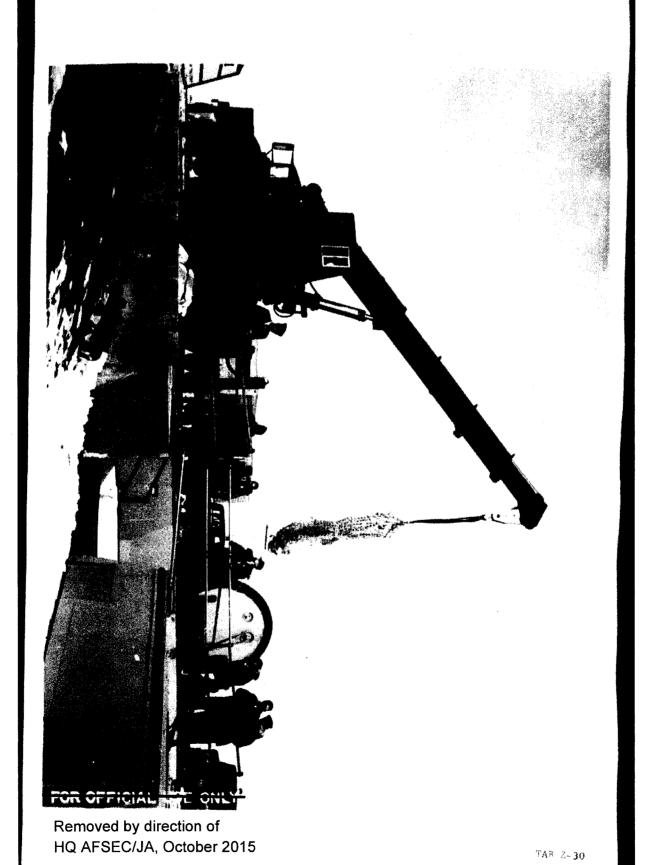
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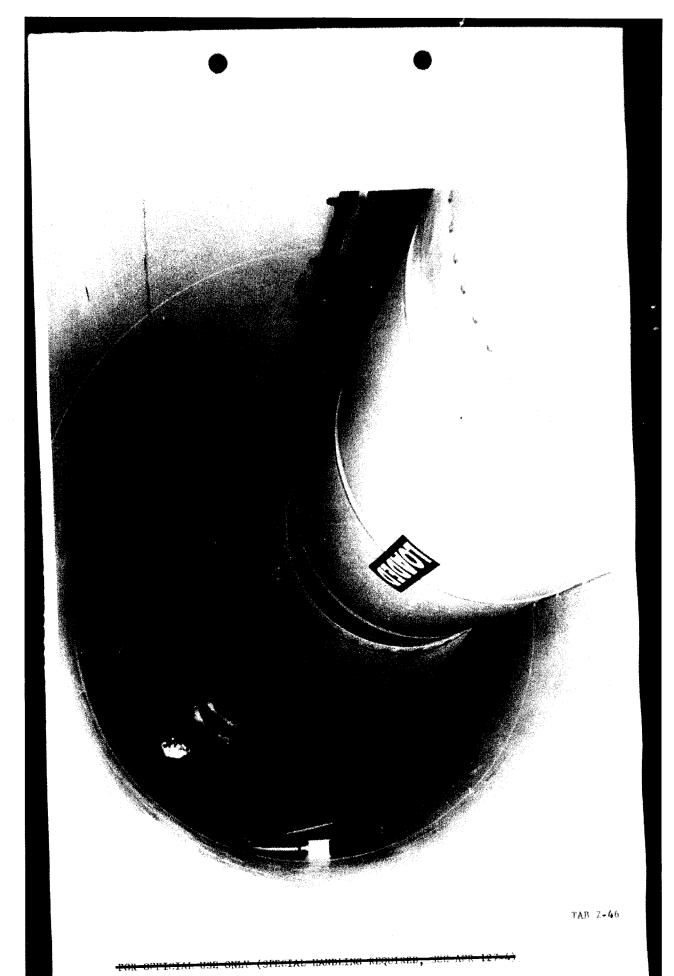
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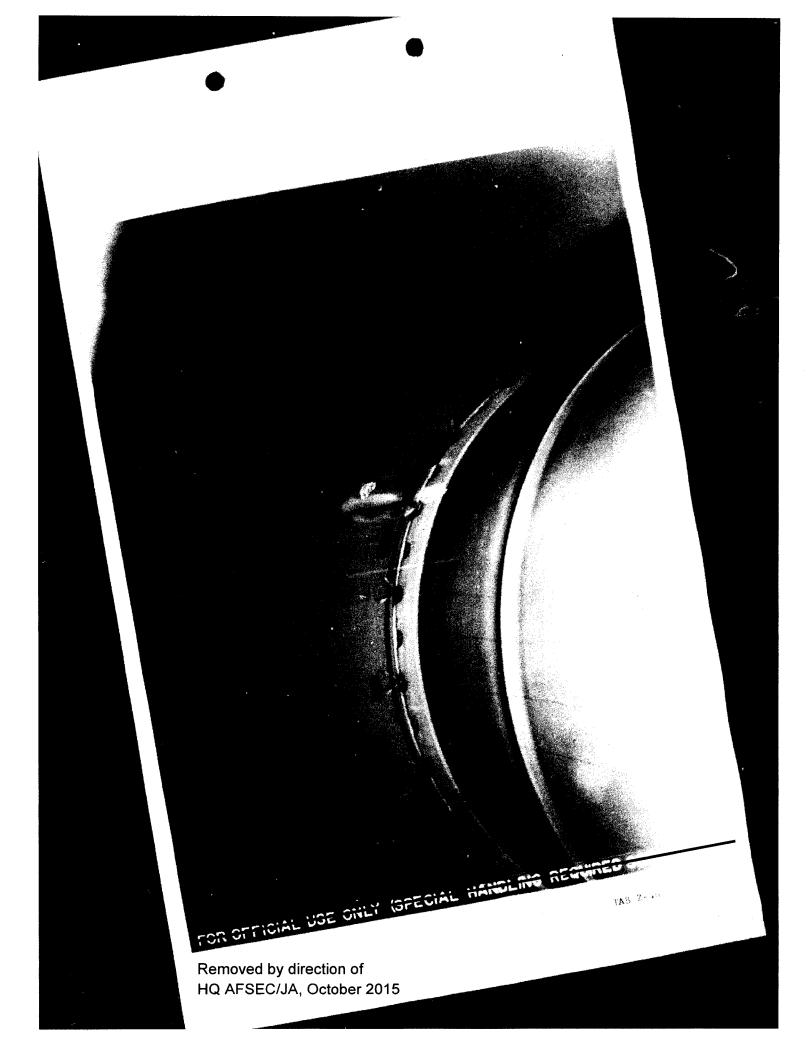












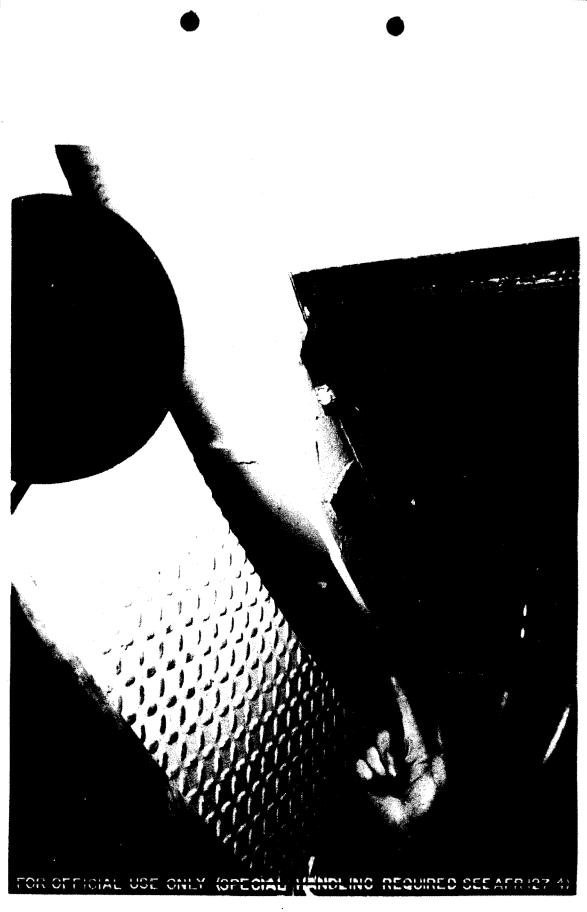




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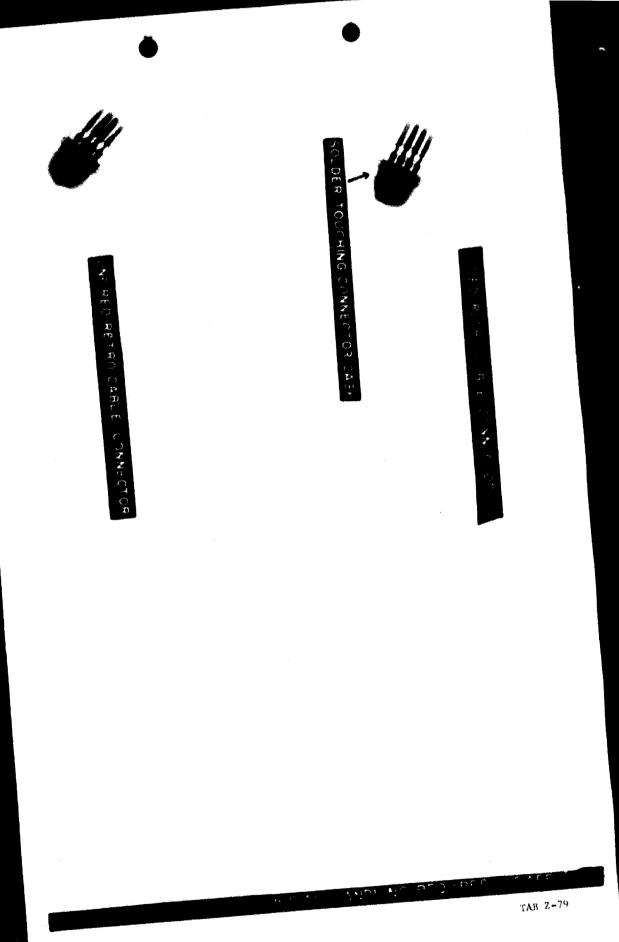
HQ AFSEC/JA, October 2015







TAB Z-75



NERED RETRO CABLE CONNECTO

SCILDER TOUCHING CONNECTOR CASE



