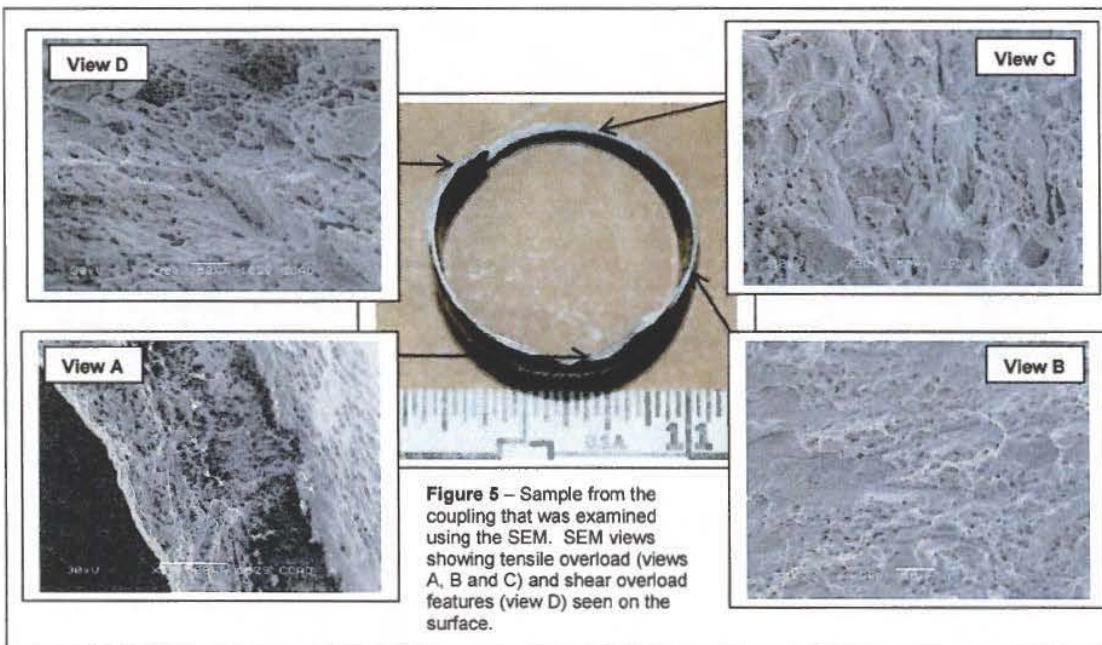


One of the fracture surfaces from the coupling was sectioned and prepared for examination using the Scanning Electron Microscope (SEM). The fracture appeared to have originated in the area adjacent to the spring plunger. The fracture progressed around and through the coupling. SEM examination revealed areas of cup cone topography around the majority of the fracture surface. Where the coupling finally broke, areas of shear overload were present (Figure 5). No other anomalies were noted on the fracture surface which might have contributed to the fracture.



4. A fracture occurred at the coupling (4D00253G01) between fin tip pole 4 (4D00368H06) and fin tip pole 5 (4D00368H07). The fracture surface exhibited shear lips around the entire circumference of the tube. The fracture travelled around the weld bead that holds the spring plunger. Dirt deposits were present on the inner diameter of the coupling. There were no signs of corrosion around the area of fracture (Figure 6).

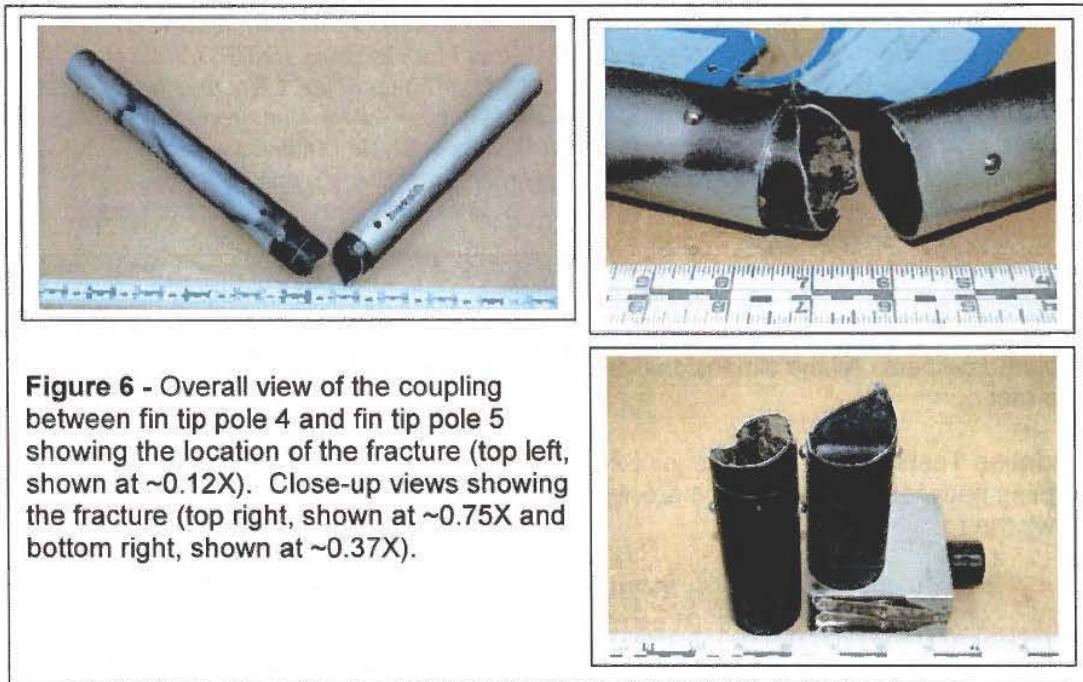


Figure 6 - Overall view of the coupling between fin tip pole 4 and fin tip pole 5 showing the location of the fracture (top left, shown at ~0.12X). Close-up views showing the fracture (top right, shown at ~0.75X and bottom right, shown at ~0.37X).

One of the fracture surfaces from the coupling was sectioned and prepared for examination using the Scanning Electron Microscope (SEM). The fracture appeared to have originated in the area adjacent to the spring plunger. The fracture progressed around and through the coupling. SEM examination revealed areas of cup cone topography around the majority of the fracture surface. Where the coupling finally broke, areas of shear overload were present (Figure 7). No other anomalies were noted on the fracture surface which might have contributed to the fracture.

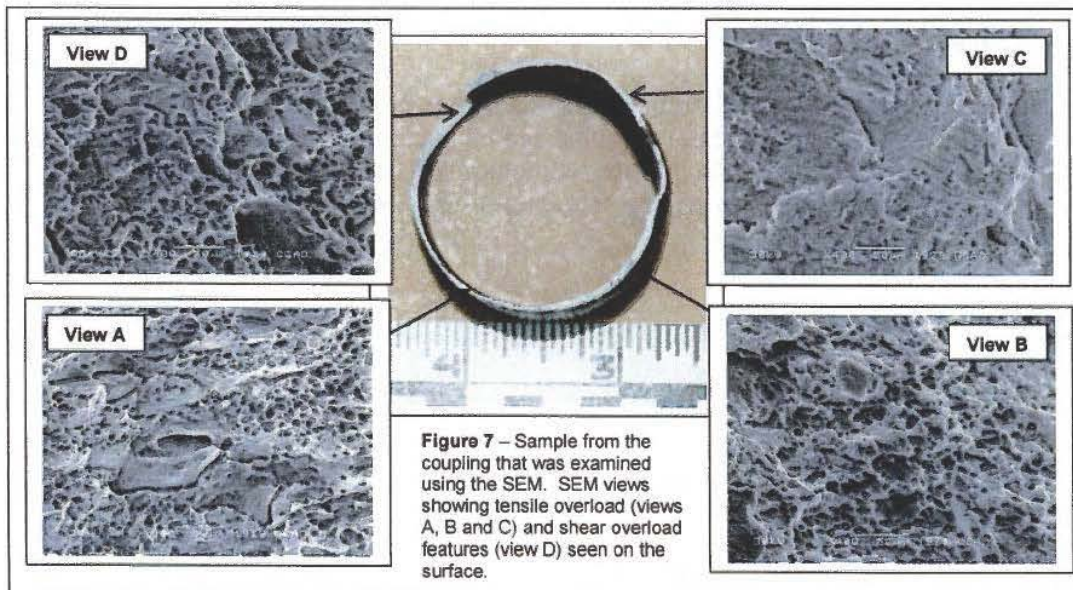


Figure 7 - Sample from the coupling that was examined using the SEM. SEM views showing tensile overload (views A, B and C) and shear overload features (view D) seen on the surface.

Material Analysis- All the fin tip pole assembly components that exhibited fractures were analyzed for material composition using X-ray Fluorescence ((XRF). XRF analysis revealed that fin tip pole joint 2 and both couplings from fin tip poles 1 & 2 and fin tip poles 4 & 5 were aluminum based, with magnesium, silicon, copper, chromium, iron, manganese and zinc present as alloying constituents. Quantitative analysis matched with the general requirements of a 6061 aluminum alloy. The engineering drawing's call out for 6061-T6 Aluminum as the required material is vague. It should specify 6061-T6 Aluminum per a known specification (i.e., SAE AMS 2770).

The outer diameter, inner diameter and wall thickness dimensions of the fin tip pole joint 2, and both couplings from fin tip poles 1 & 2 and fin tip poles 4 & 5 were obtained using calibrated calipers. All the dimensional requirements provided by the engineering drawings were met.

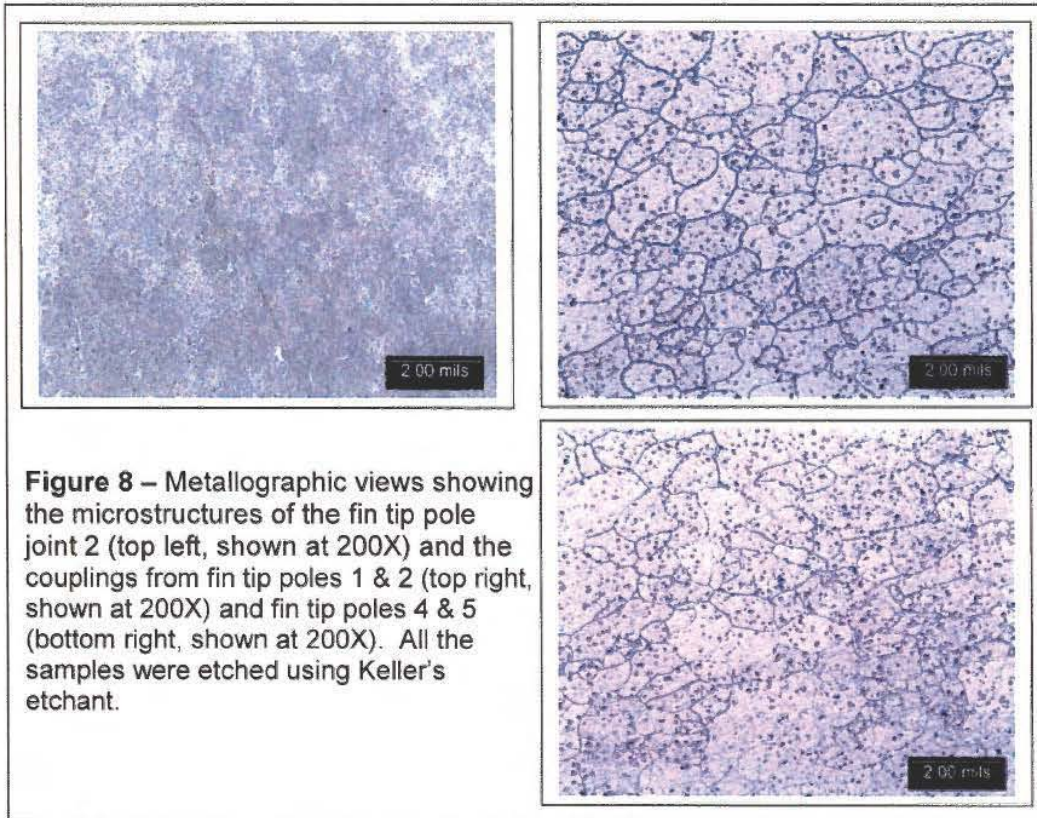
Hardness Tests- The fin tip pole joint 2, coupling between pole sections 1 & 2 and the coupling between pole sections 4 & 5 were subjected to hardness testing. Table 1 shows the results of the testing.

TABLE 1

	Hardness Rockwell "15T"
Fin tip pole joint 2	80.5
Coupling – Poles 1 & 2	80.7
Coupling – Poles 4 & 5	81.2

The engineering drawing did not specify hardness requirements for the components of the fin tip pole assembly. AMS 2658C was used as a guide to determine if the components met hardness requirements. Table 1 provides hardness and conductivity acceptance values for aluminum alloys. The requirement for 6061 in the T6 condition is 78.0 Hardness Rockwell scale "15T" minimum. The values obtained on the tested samples met this requirement.

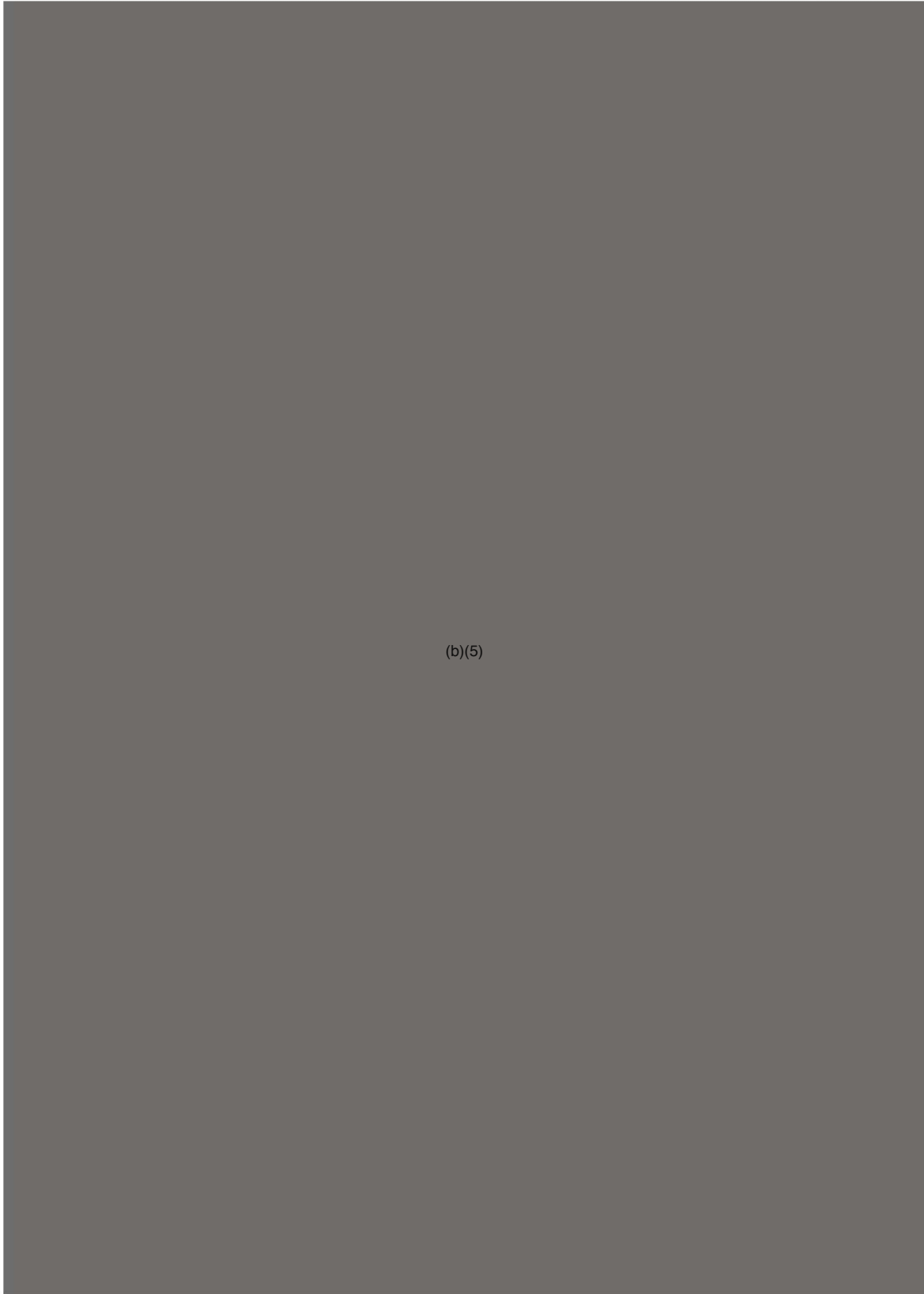
Metallographic Examination- Mounted cross sections of the fin tip pole joint 2 and both couplings were used for metallographic examination. Examination up to 800X did not find any discontinuities within the microstructure that could have contributed to the failure. The microstructures were judged to be normal for 6061 in the T6 condition (Figure 8).



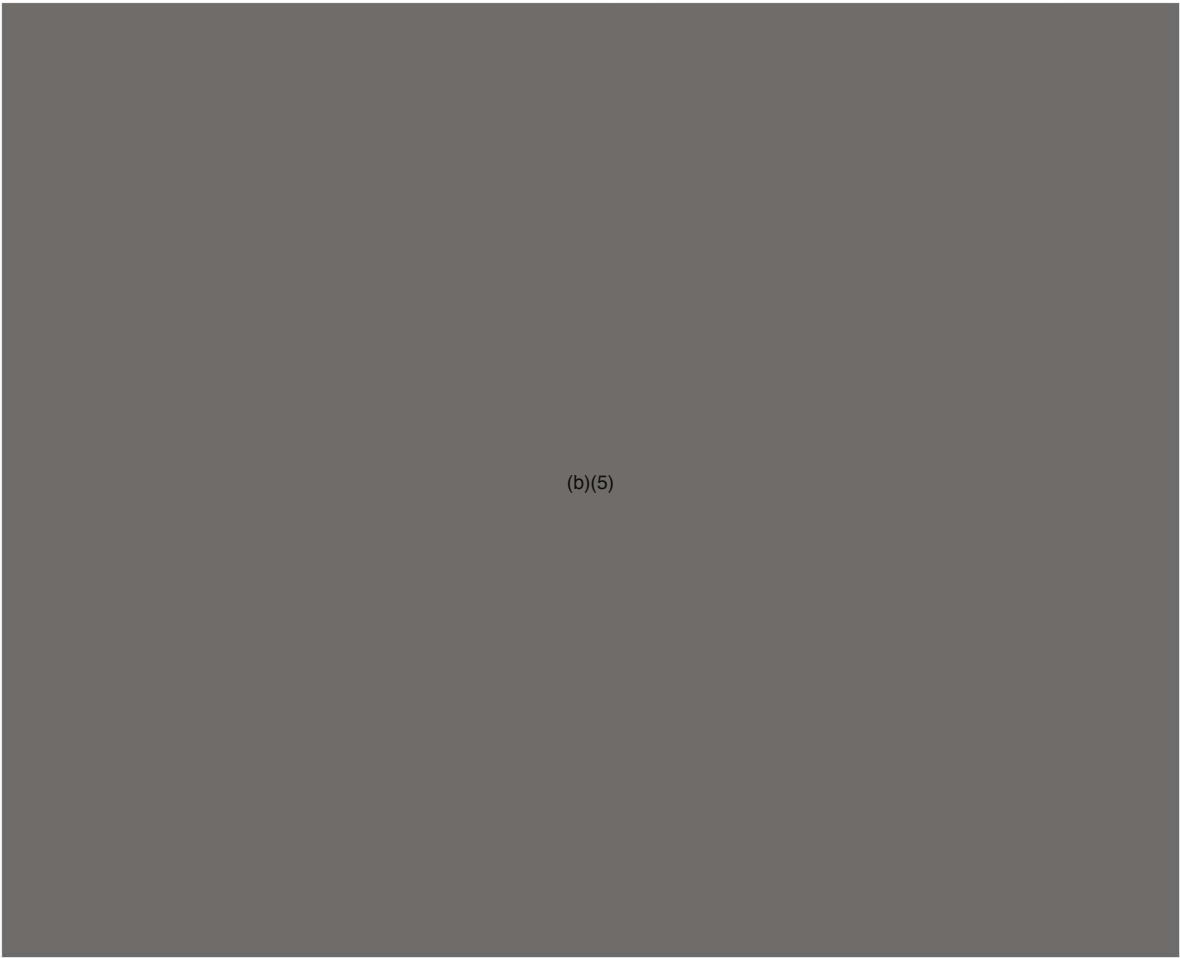
All parts were returned to the AIB investigator.

NATICK LABS Field Investigation Report

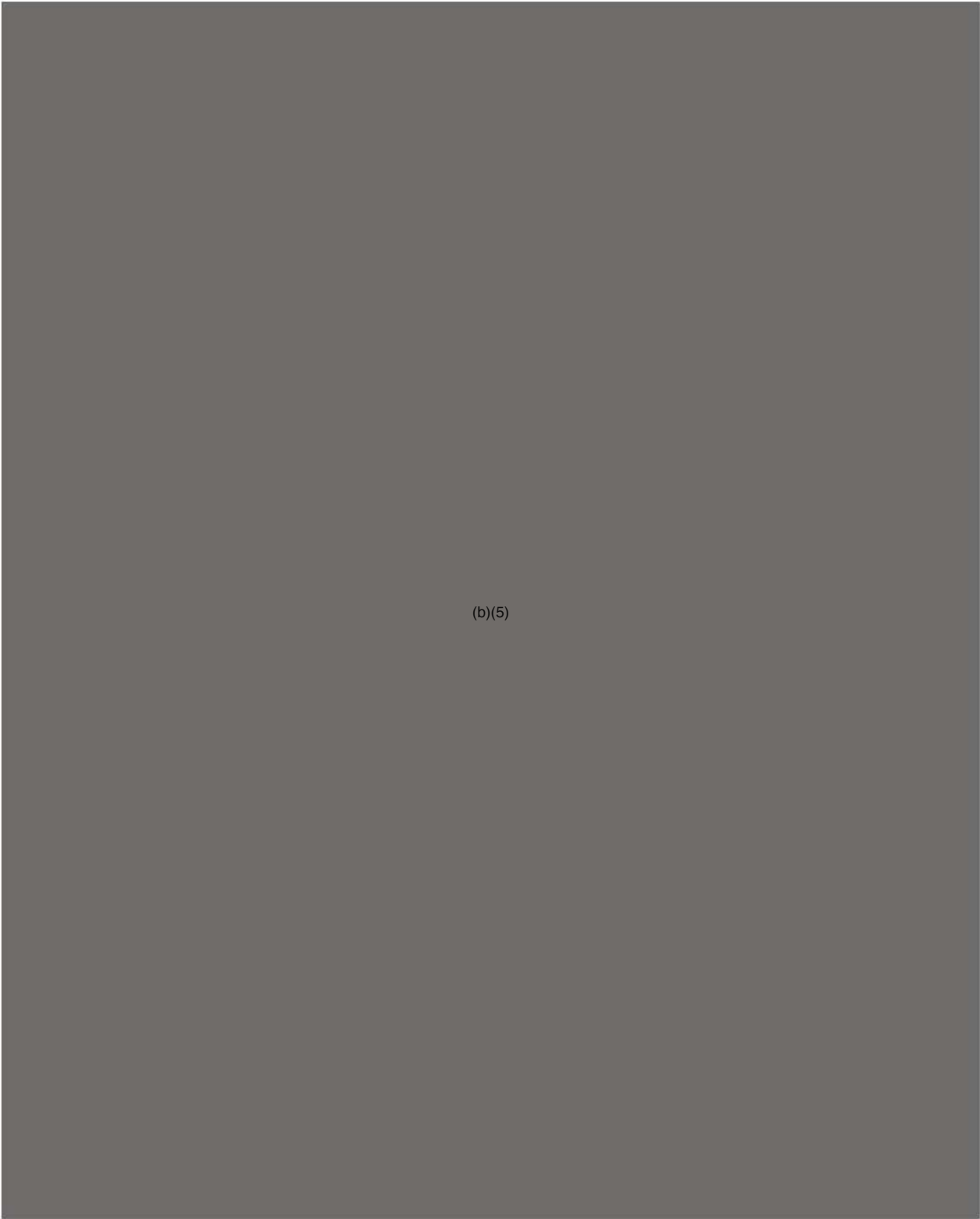
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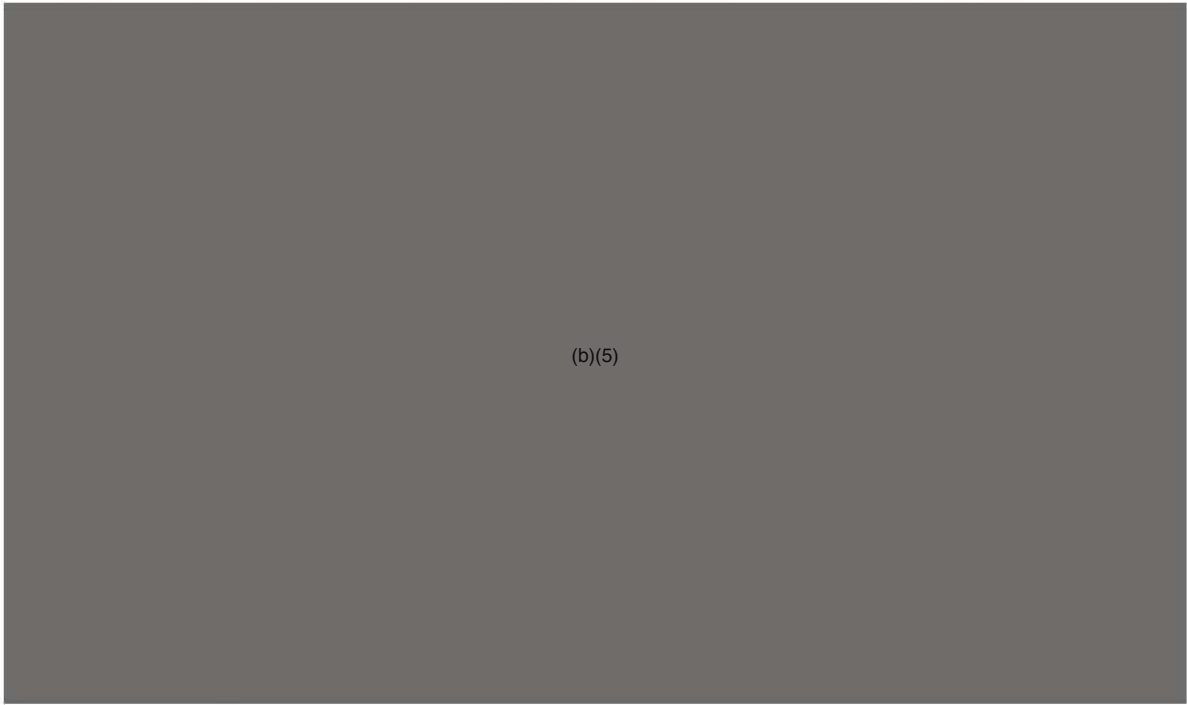
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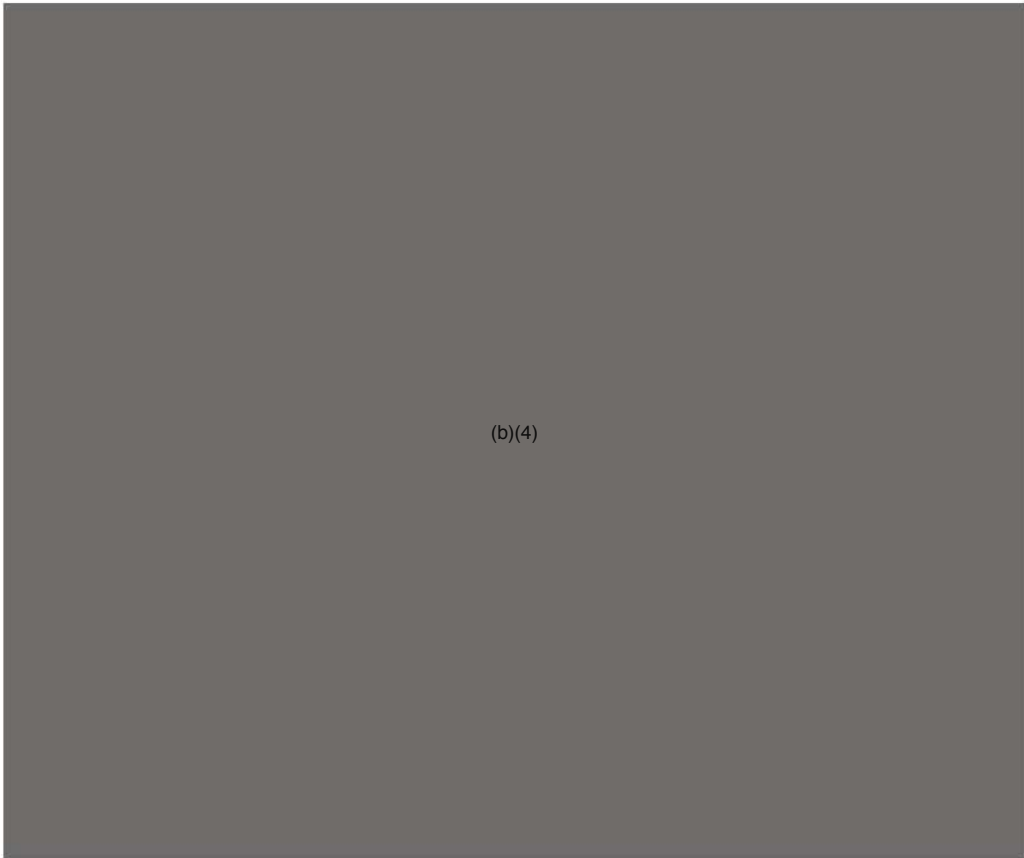
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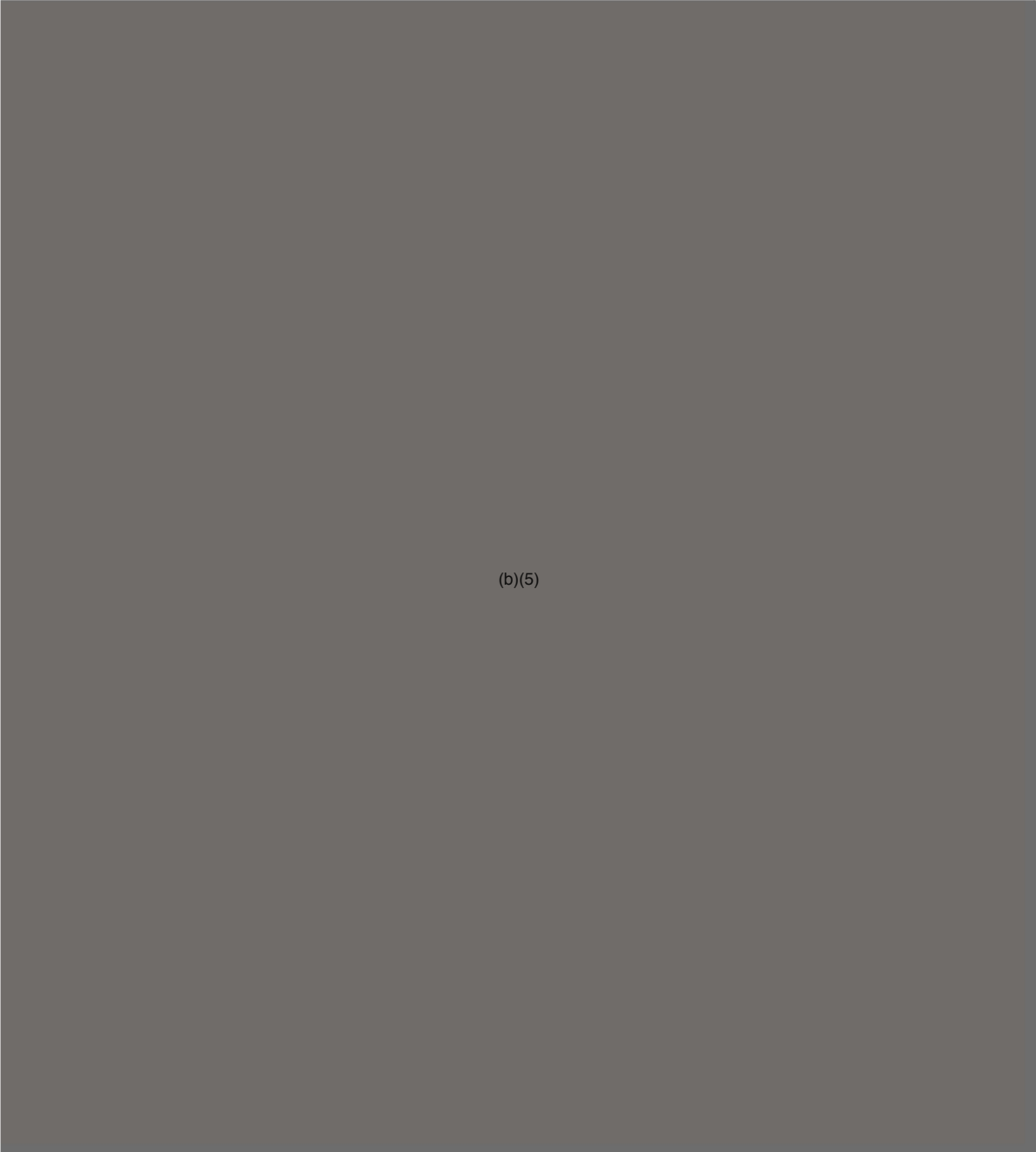
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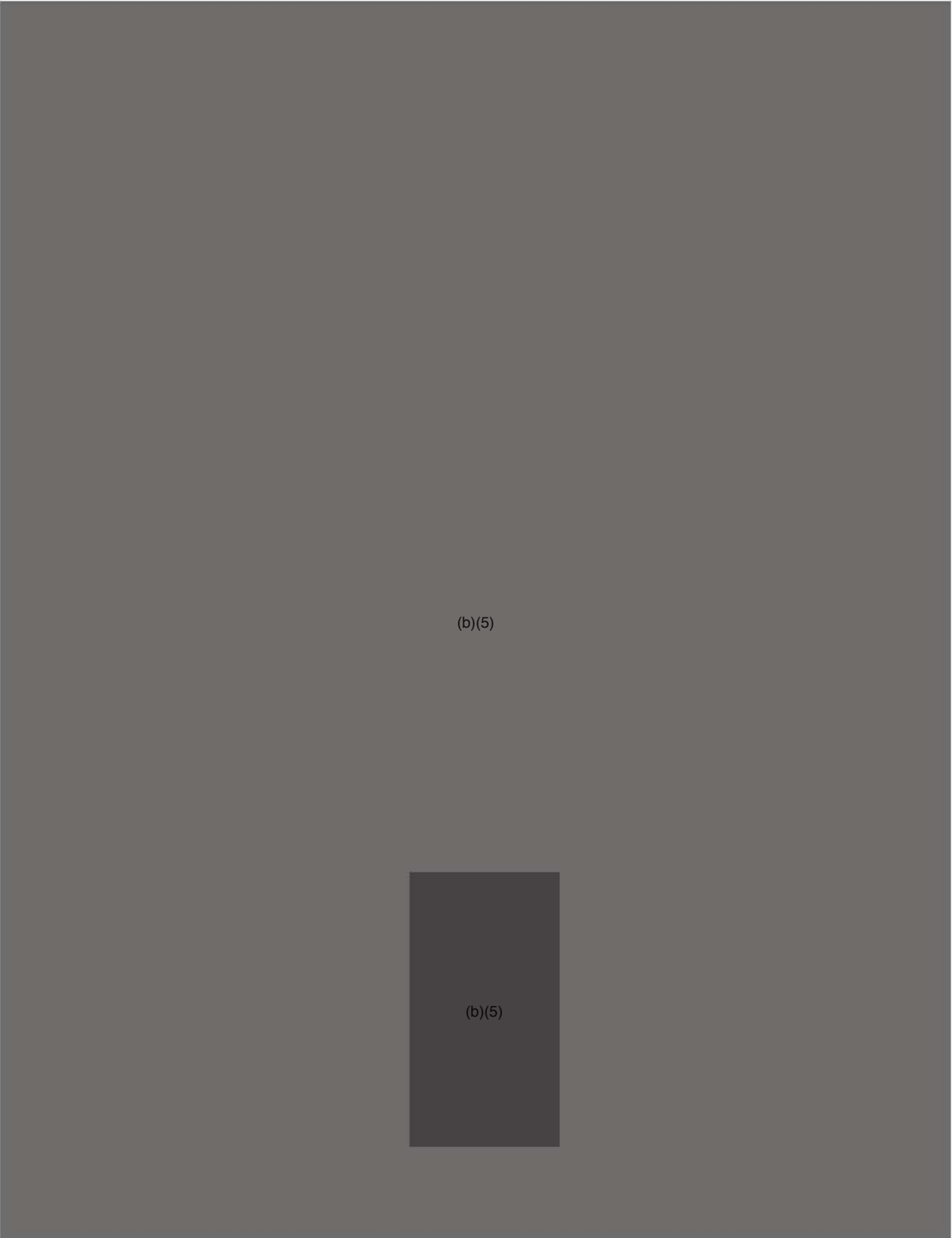
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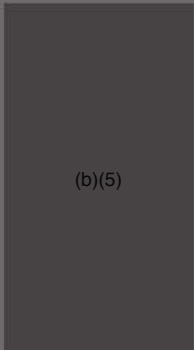
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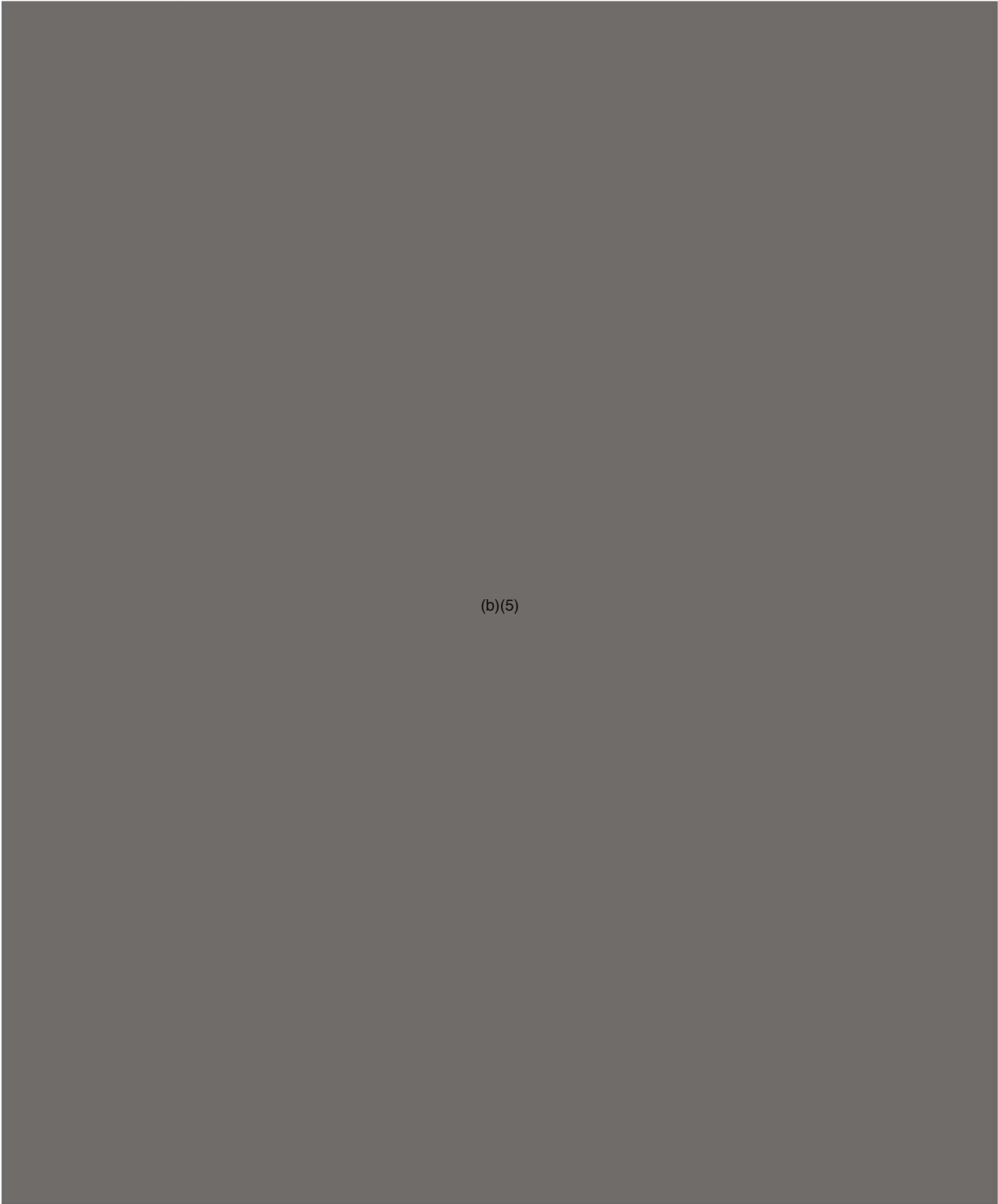
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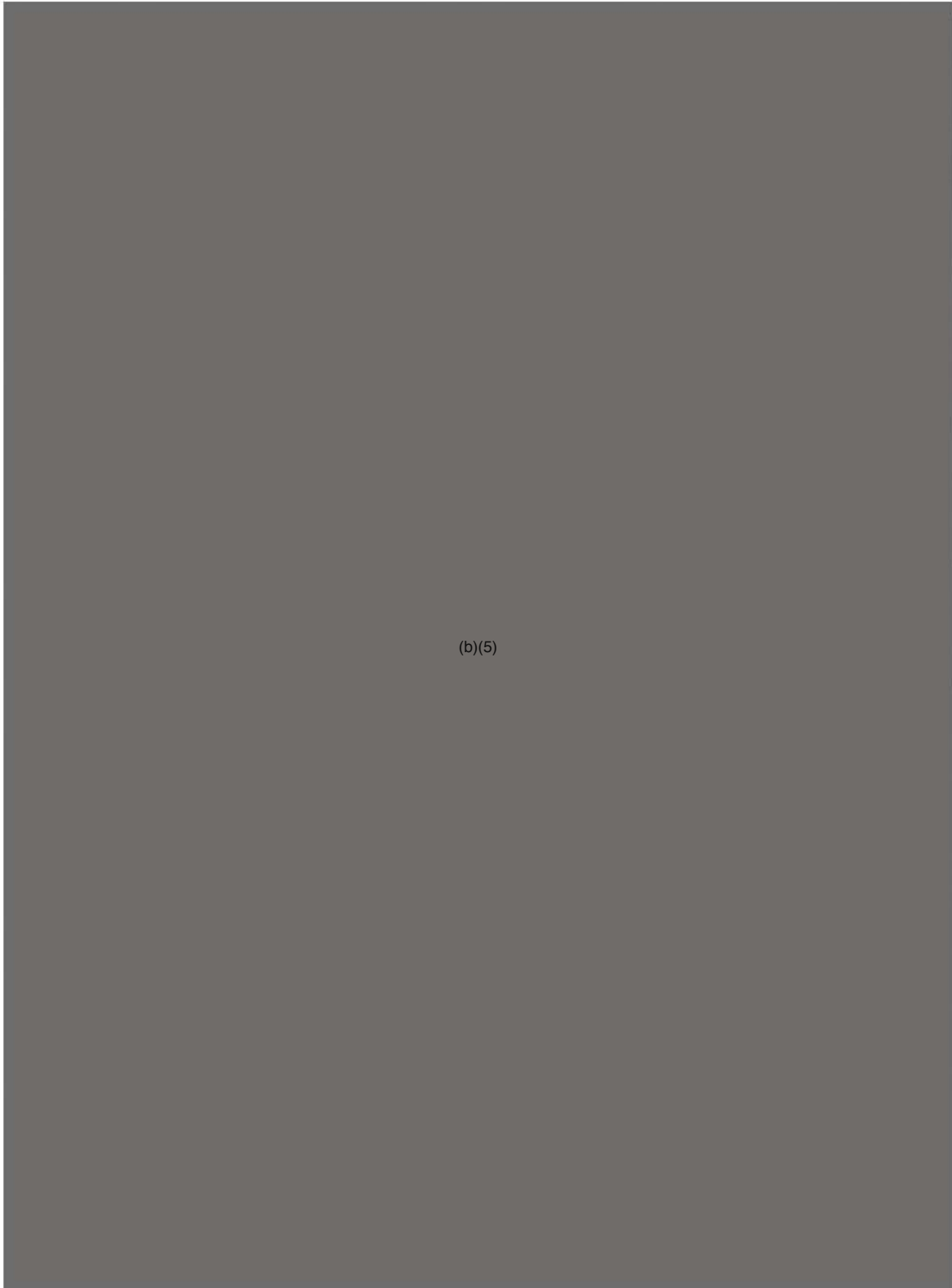
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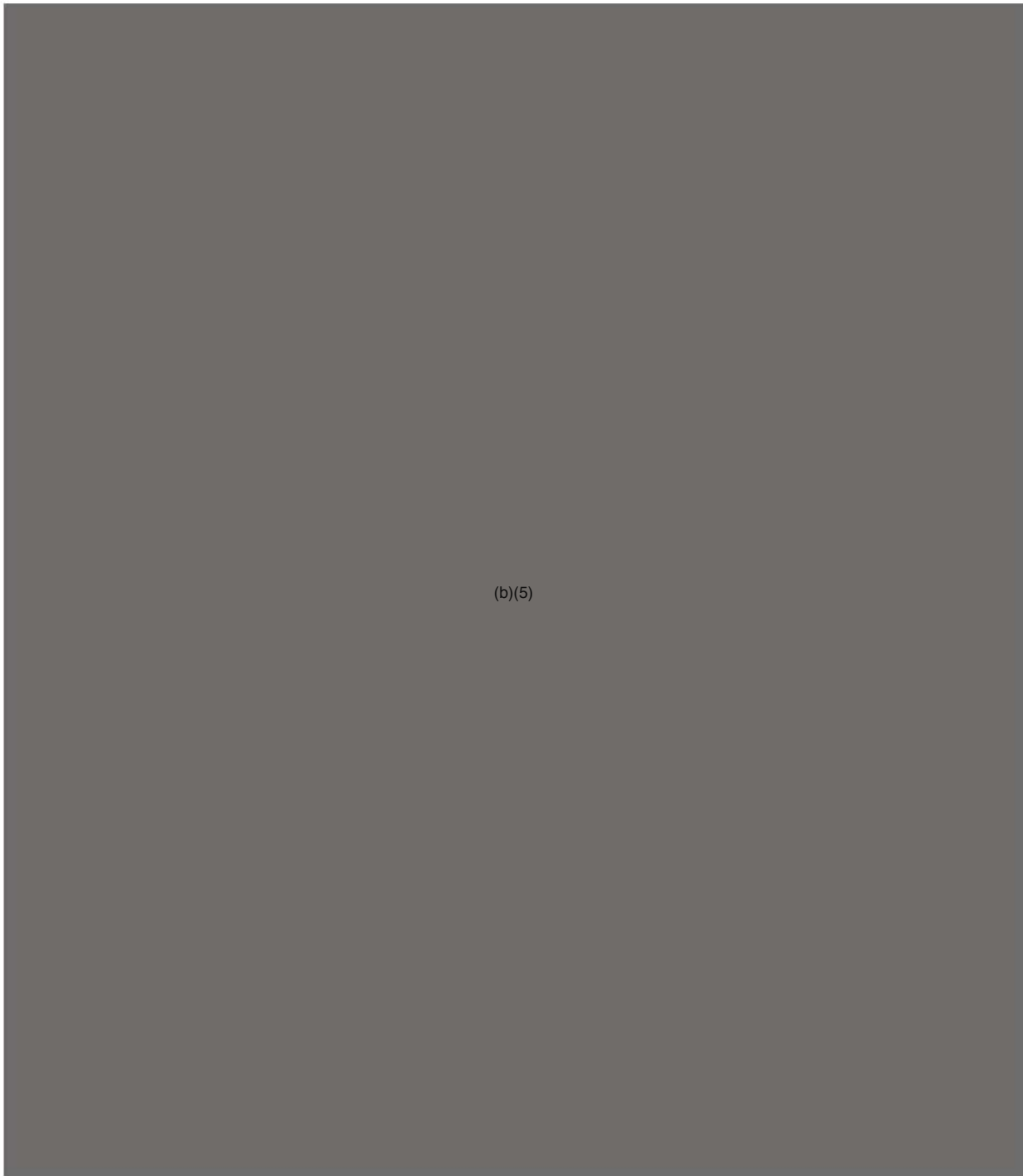
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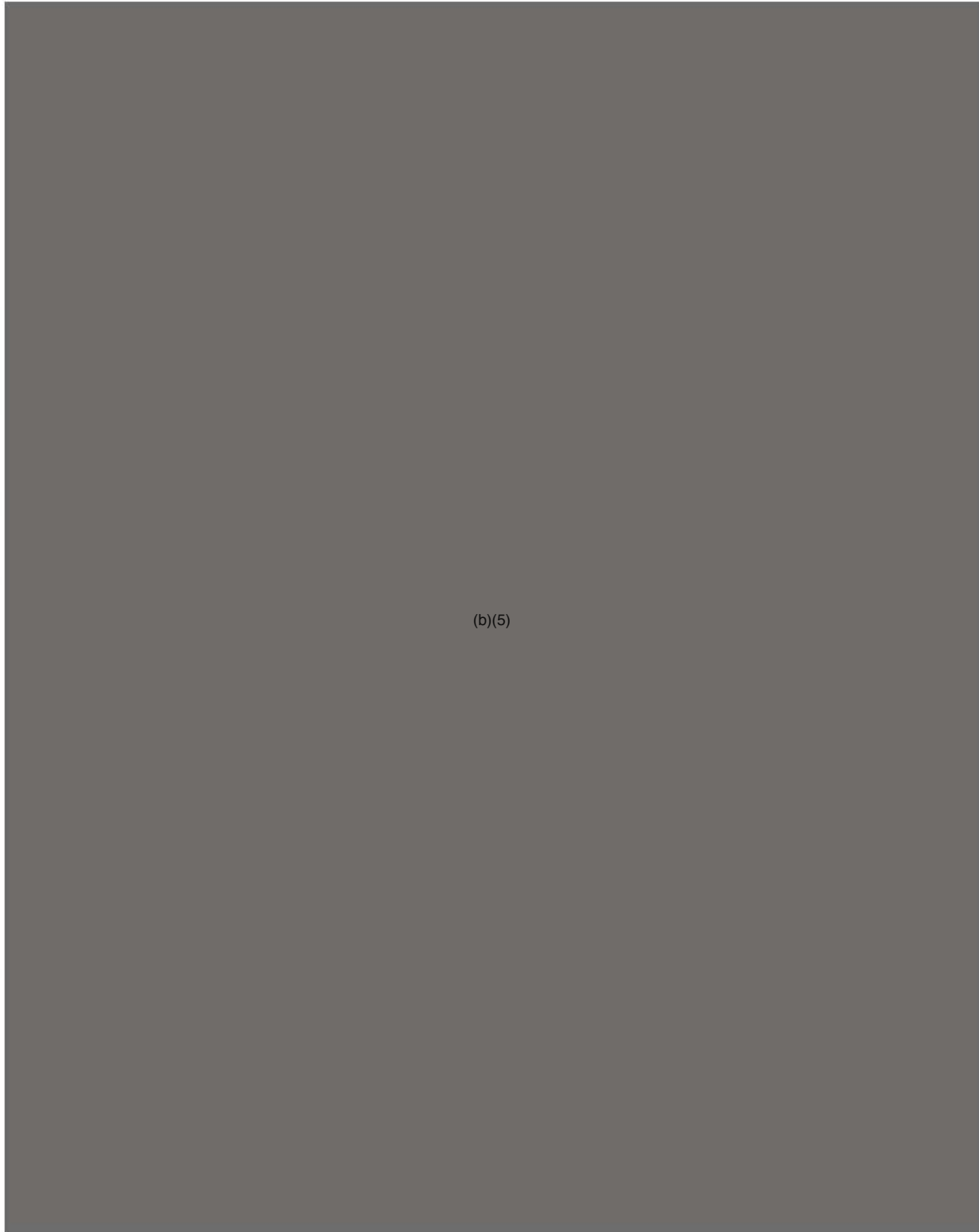
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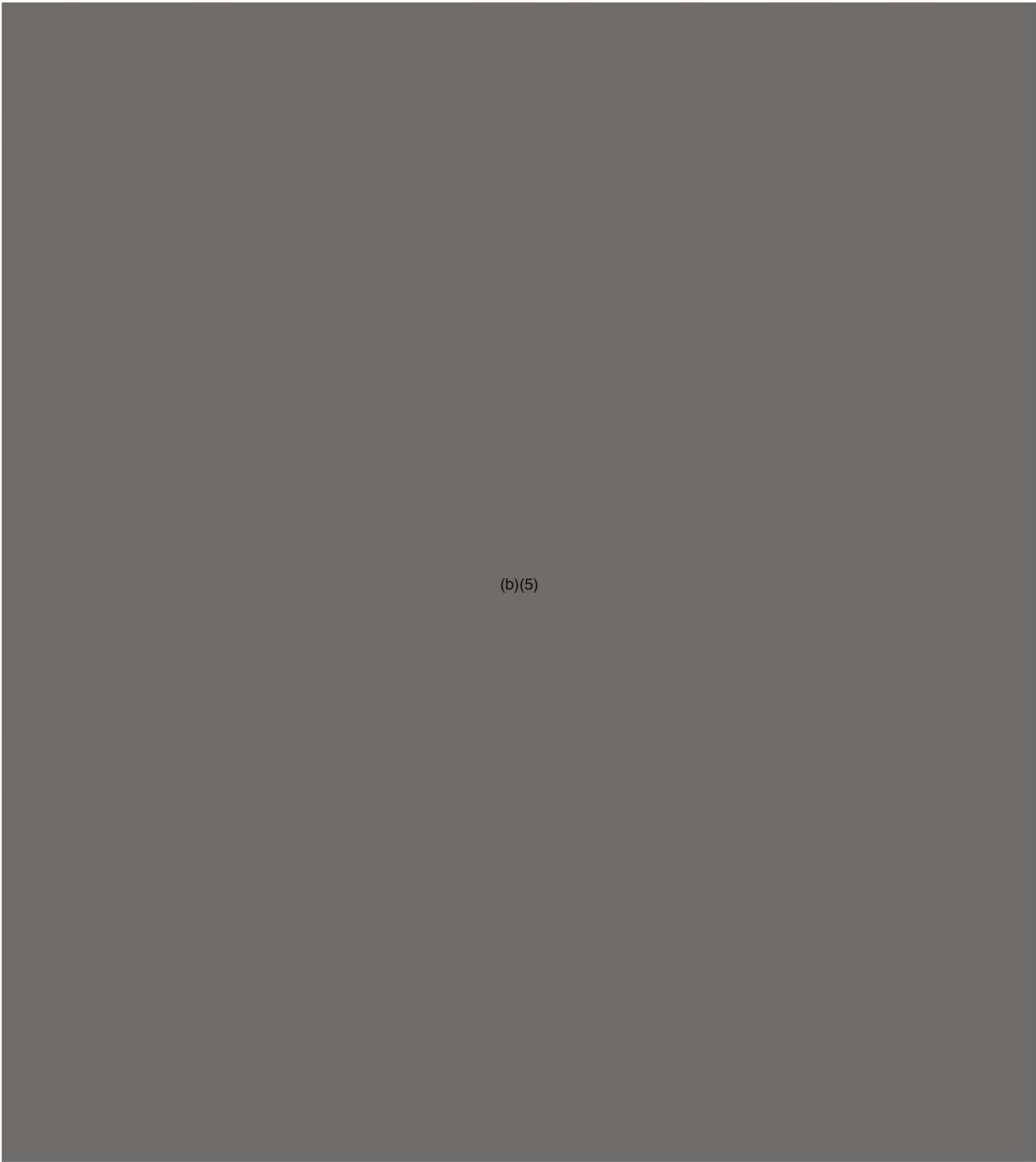
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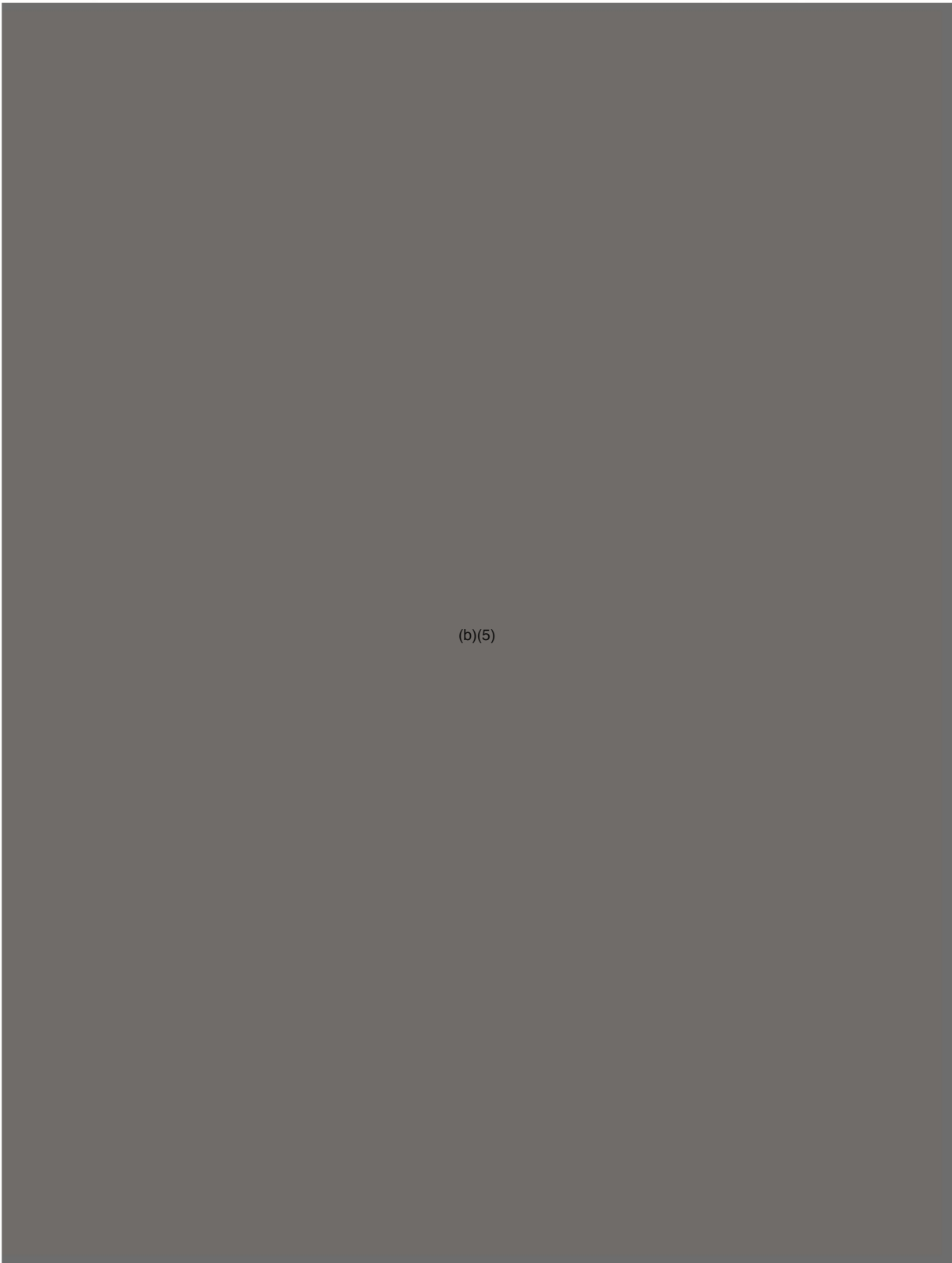


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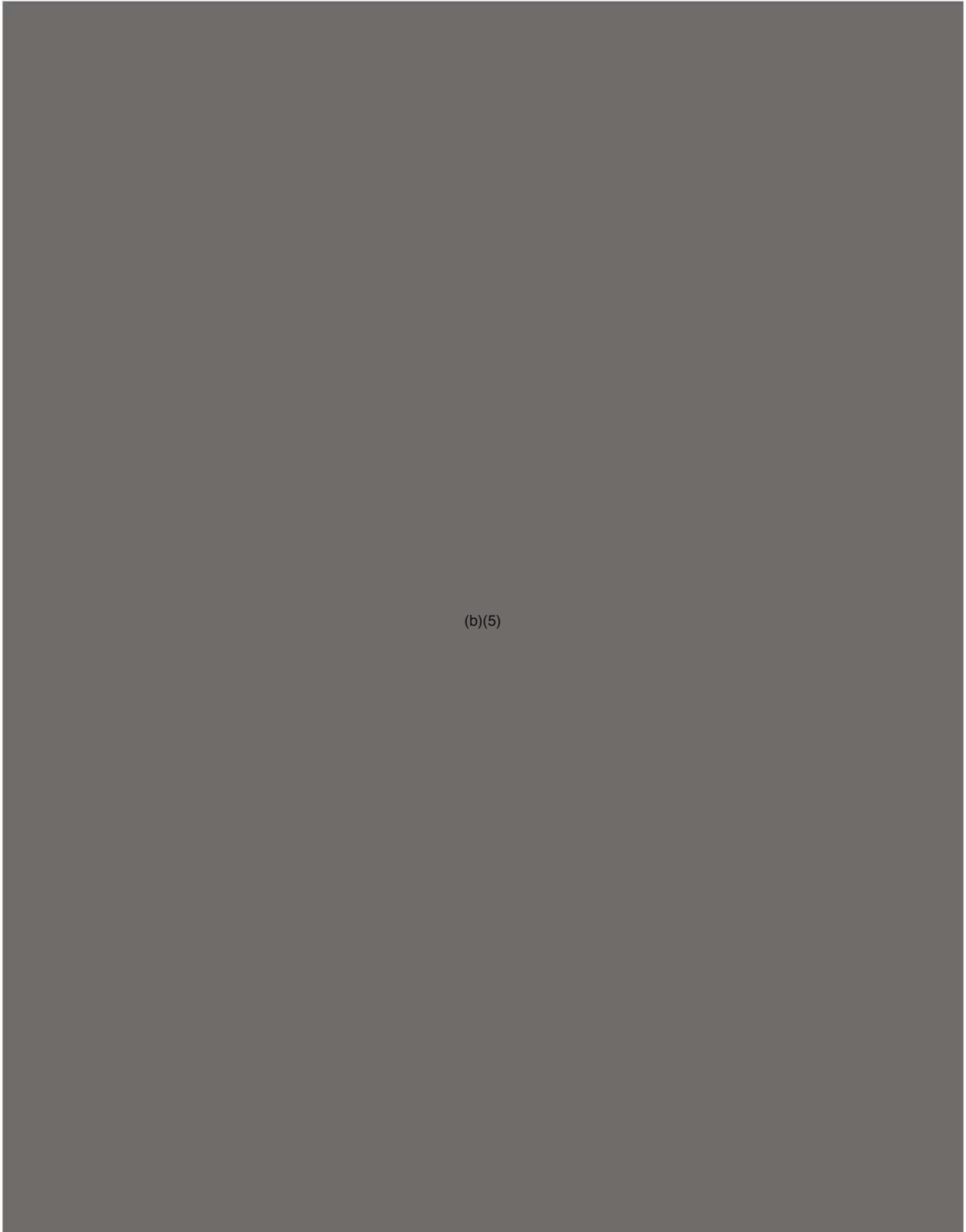
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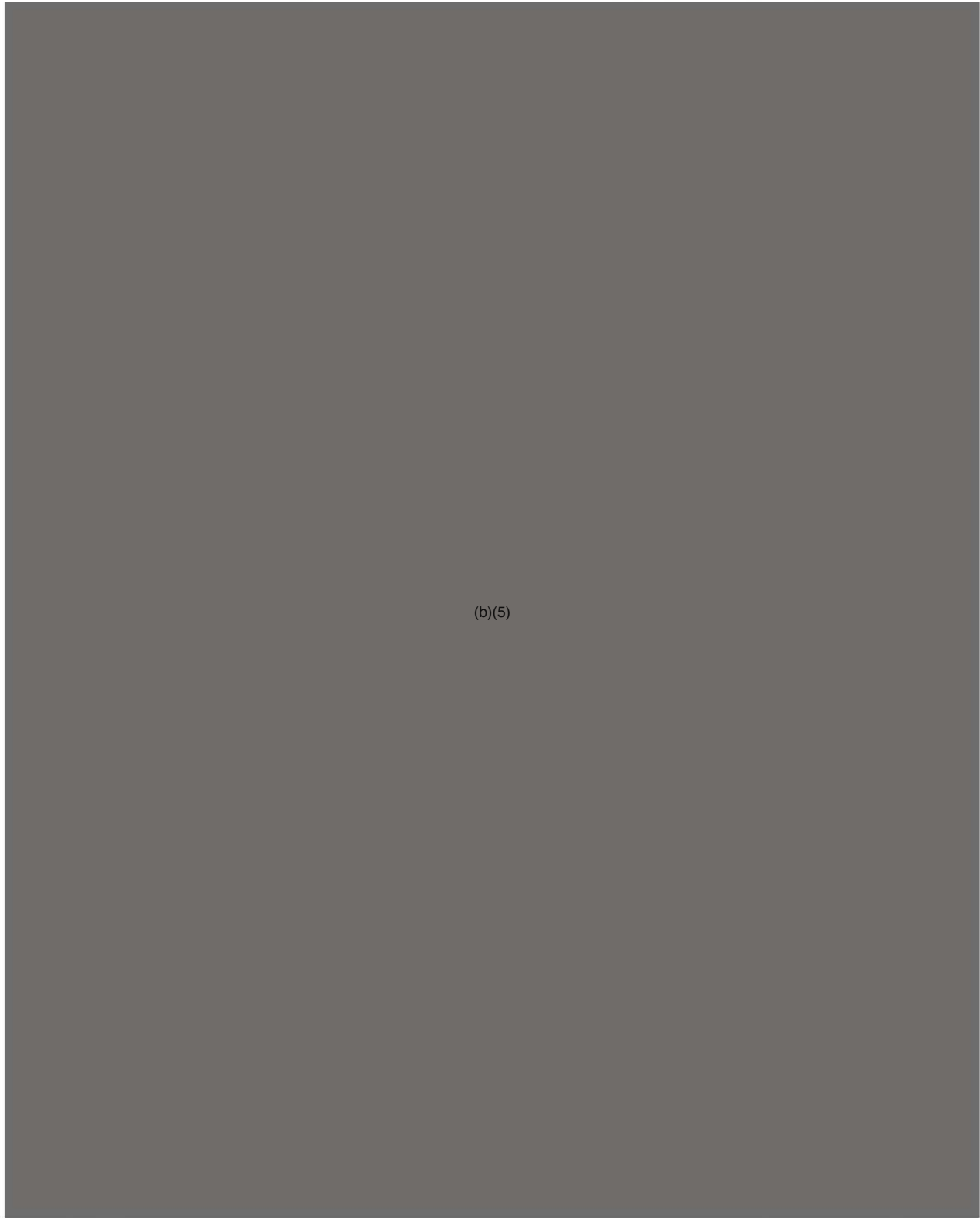


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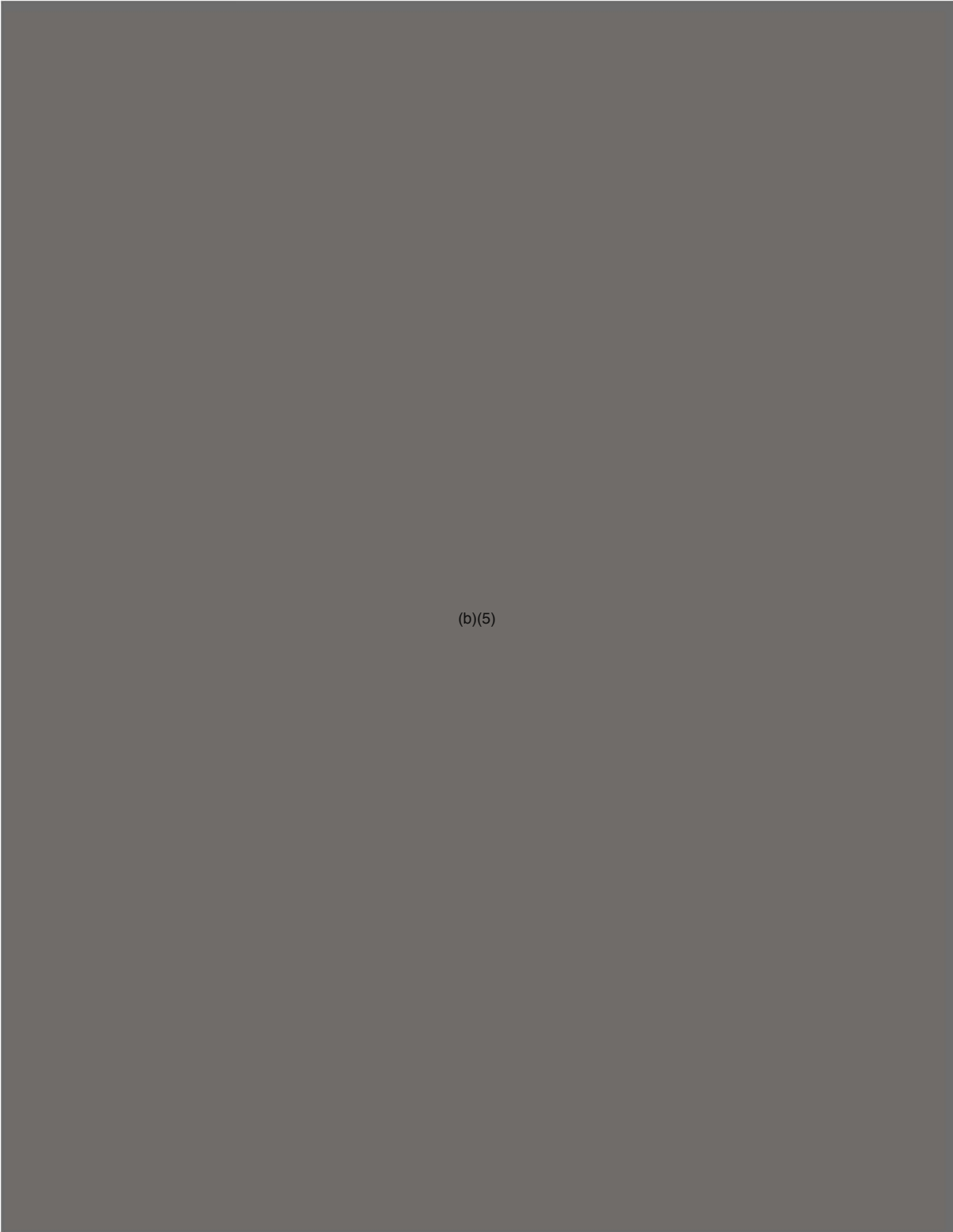
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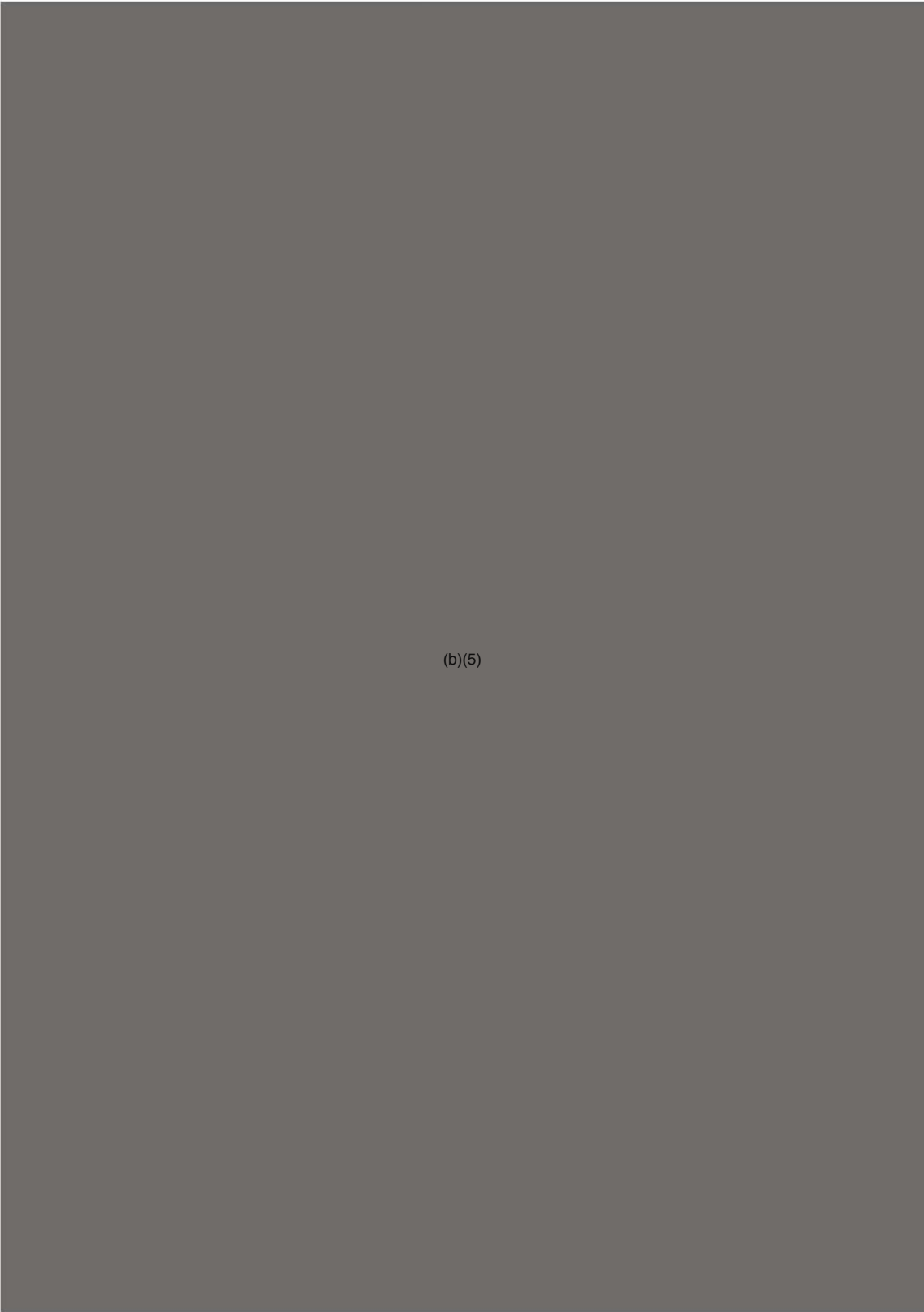
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**DEPARTMENT OF THE ARMY
PROGRAM EXECUTIVE OFFICE, MISSILES AND SPACE
BUILDING 5250
REDSTONE ARSENAL, AL 35898-8000**

SFAE-MSL-CM

MEMORANDUM FOR RECORD

**SUBJECT: Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS)
Failure Review Board (FRB) Report**



Referred to PEO, Missiles & Space, Redstone

SFAE-MSL-CM
SUBJECT: JLENS FRB Results



Referred to PEO, Missiles & Space, Redstone

SFAE-MSL-CM
SUBJECT: JLENS FRB Results



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SUBJECT: JLENS FRB Results



Referred to PEO, Missiles & Space, Redstone

SFAE-MSL-CM
SUBJECT: JLENS FRB Results

Referred to PEO, Missiles & Space, Redstone

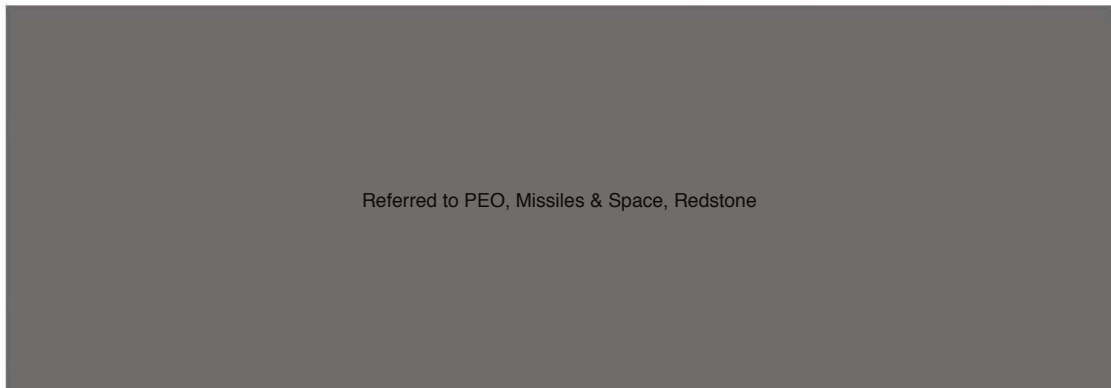
(b)(6)

Failure Review Board Chairperson

- Aerostat weight and balance maintained with Orbit payload weights and locations
 – Documented in EDM-731

74A FCR REV 36							74A SuR REV 33						
WEIGHT SUMMARY #1		WEIGHT			POSITION			WEIGHT		POSITION			
Aerostat		(lbs)	X (ft)	Y (ft)	Z (ft)		(lbs)	X (ft)	Y (ft)	Z (ft)			
"A" Aerostat Mechanical		7606.590	109.312	0.033	4.137		7606.590	109.312	0.033	4.137			
"B" Aerostat Rigging		893.670	83.547	0.617	18.964		893.670	83.547	0.617	18.964			
"C" Aerostat Electrical		351.610	74.650	0.726	42.559		351.610	74.650	0.719	42.556			
"D" Housekeeping Rack		1196.340	80.549	0.000	36.900		1196.340	80.549	0.000	36.900			
"E" Windscreen Payload Frame		237.000	121.390	0.000	35.710		237.000	121.390	0.000	35.710			
"W" Aerostat Cables		411.770	65.230	0.031	28.003		411.770	63.930	0.270	35.952			
"X" Ballast		0.100	236.000	0.000	3.000		0.100	236.000	0.000	3.000			
Aerostat Subtotal:		10697.1	Margin				10697.1	Margin					
Aerostat Max Weight for 7000 lb Payload:		10999.0	301.9	0.577			10999.0	301.9	0.577				
Payload #1 (FCR Radar)													
"F" Subtotal Main Payload		4821.000	121.390	0.000	31.777		4150.000	121.390	0.000	35.710			
"G" Subtotal: Payload Support Equipment		1111.000	93.620	0.000	35.940		1194.000	93.620	0.000	35.940			
Payload #1 Subtotal		5932.000					250.000	88.580	0.000	9.190			
Payload #2 (Comms)							222.000	15.851	0.558	-0.402			
"H" Subtotal: Lower Communications		754.000	180.910	0.000	21.260		6066.000						
"I" Subtotal: CEC		345.000	127.950	0.000	-31.780								
Payload #2 Subtotal		1099.000					754.000	180.910	0.000	21.260			
Payload Total		7031.000					345.000	127.950	0.000	-31.780			
7000 lb Allocated Payload Offset		-31.000	123.707	0.000	28.188		1099.000						
WEIGHT SUMMARY #2							7165.000						
Aerostat		10697.080	101.375	0.100	11.921		7000 lb Allocated Payload Offset	-165.000	117.762	0.000	28.008		
Payload #1 (FCR Radar)		5932.000	116.189	0.000	32.557								
Payload #2 (Comms)		1099.000	164.285	0.000	4.610								
SYSTEM TOTAL		17728.080	110.232	0.061	18.373								
7000lb Allocated Payload System Total		17697.080	110.208	0.000	18.355		17862.080	108.387	0.072	18.557			
							17697.080	108.300	0.000	18.469			

Meets Platform Weight Requirement With 302 (2.7%) Margin



Referred to PEO, Missiles & Space, Redstone

Data Restrictions:

Distribution DISTRIBUTION STATEMENT F – Further dissemination only as directed by the Cruise Missile Defense Systems Project Office, SFAE-MSLS-CMDS-PE-CM. Redstone Arsenal, AL 35898-5000, 24 March 2000.



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Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9/4/15	1815		Latched at 1515 for incoming weather and lightning. Hpa #2 tripped again and the monitor close the door in case is going out. it is turning colors. Soft Starter.	19152	
9/4/15	1710		Power flickered out and came back up on Geis did it loose my power to mms. 400 and 600 Hz still up when I went out to check.	21102	
9-5-15	0630		Lead cell failure confirmed. Cleaned connector w/ no joy. Briefed Army FT + HD that we would launch and monitor since part will not be on site till Tuesday 9/8. Army did not want to launch since it was Holiday, No mission, and potential risk. Had Team crew hook up tracers as precaution due to multiple power failures on site.		
9-6-15	0500		On site check of system. All is good.		
9-6-15	1600		Launched Team FH 695 @ 15412. Unit J = 29,608 climbed to 9000'. No issues.		
9-6-15	1615		Prior to 4 ft. changed lead cell % 3D16836 H01 s/n 1279947 with new lead cell s/n 1279977. Component is good.		

(b)(6)

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-6-15	2045		LOW WINDS AND LOW WINCH TENSION, TETHER MOVE TO 6497' WINDS 6000 KTS. HPUZ FAULT OCCURRED		
9-7-15	0445		TETHER MOVE TO 6801'. HPUZ FAULT CAME ON FOR A SECOND TIME IN A ROW.		
1-7-15	1145		Tether move to 1005' / CP 11370 / winds 10.0 Kts / Temp 54.4°F Scheduled move HPUZ fault occurred after HPU shutdown		
1-8-15	0318		TETHER MOVE FOR WEREH TENSION TO 8499 TD / CP 9,700 / WIND 4.3 / TEMP 44.5°F - HPUZ TRIP AND WAS RESET UPON SHUTDOWN.		
1-8-15	1120	(b)(6)	Tether move to 9249' / CP 11023 / winds 10.0 Kts / Temp 53.4°F Scheduled move. HPUZ soft start tripped and was reset Lift ✓ at altitude = 29,313		
9-8-15	1630		Tether move to 9000' / CP 12367 / winds 11.6 Kts / Temp 53.3°F Ops move Lift ✓ = 29,615		
11/9/15	2041		TETHER MOVE TO 8748' / CP 1123 / wind 17.4 KTS / TEMP 56.3°F		
9/9/2015	1604		TETHER MOVE TO 10,900' / CP 11,301 / WINDS 18.6 KTS / TEMP 57.8°F		

NO PAGES / WEBS OUT BY (b)(6)

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
7/10/15	21:58	(b)(6)	HERBY STANER DEVELOPED ON TOP OF G FIELD, PITCH + 23.2° INSPECTION REQUIRED; IN MAILED TO 3413 / EP 9987 / WIND 14.4 / TEMP 87° ADDITIONAL TEMPO LOSS OF DYNAMIC PRESSURE ON FIN MOST LIKELY MOISTURE-RESERVED ON ITS OWN.		
7/10/15	02:14	(b)(6)	ADVISED BOTH ARMY FP'S TO RECONVAL - CELLS DEBUSSING IN AND AROUND THE BALTIMORE AREA TRACKING TO BOTH SITES NO LTA - YES		
7/10/15	02:45	(b)(6)	RECOVERED TEAM FWT 605, TRAW IN THE VICINITY FLIGHT TIME 83.07 TOTAL TIME 6003 / 4 FLIGHTS ON YEARLINE SINCE RETURN.		
7/10/15	16:08	(b)(6)	SM'S CROW REPLACED SOFT STARTER HPV #2, ML ATTEMPTED TO PROGRAM IT BUT RAN INTO DIFFICULTY, GATHERED FROM TEAM ONMUTE TO SITE TO ANALYZE/FIX COMM. ISSUE APPD TO BE #3 FROM ORD 457-5 ANALYZED NOW WFT 24,574 WILL COMPLETE AGAIN AT V OR NEXT FLIGHT	ES49341525301113 STR 5501	
9-13-15	1100	(b)(6)	INSPECTED ROTARY DRIVE. EXTERNAL GEAR'S USED LUBE. ENTRIES TO FOLLOW DESCRIBING REPAIR/SHOOTING EFFORTS FROM 9-10-8 TO 9-13-15	ES49341525301113 STR 5502	

Page closed by (QA): (b)(6) Date: 9/15/15

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-15-1506	(b)(6)	(b)(6)	<p>LAUNCHED FLIGHT 606 AT 1438. ROTARY DRIVE FAILED TO DRIVE TO THE RIGHT (CW) DURING THE LAUNCH. NO OTHER ISSUES WITH THE LAUNCH. ROTARY DRIVE PRESURE WERE COMPARED AND THE DRIVE IS 1000 PSI LESS WHEN OPERATED. WILL BE INSPECTED FURTHER. STOPPED AT 5502 FT.</p>	STR 9349254001 STR 5562	
9-15-15	1645	(b)(6)	<p>MAN WHICH HPU 2 SOFT STARTER ^{IN} (CAT. NO. S811724N35, SN: S1944022) WOULD TRIP DURING MAIN WHICH SHUTDOWN. SPARE SOFT STARTER WAS BEING DOWN FROM COLUMBIA (CAT. NO. S811724N35, SN: 936C3060). THE SPARE WAS ALREADY CONFIGURED BY BRIM SIBLEY IN E. CITY. REMOVED EXISTING HPU 2 SOFT STARTER (SN: S1944022) AND INSTALLED SPARE HPU 2 SOFT STARTER (SN: 936C3060). CONFIGURED HPU 2 USING CH STUDIO SOFTWARE AND DIM INTERFACE UNIT. SYSTEM IS NOW OPERATIONAL.</p> <p>* NOTE!! SOFT STARTER CAT. NO. S811 IS NO LONGER IN PRODUCTION BY THE MANUFACTURER. THIS MODEL HAS BEEN REPLACED BY CAT. NO. S8117. DEVENET MODEL D770-DNA IS ALSO DISCONTINUED. DURING THE PROCESS OF TROUBLESHOOTING SOFT STARTER MODELS S8117, WE NOTICED THE NEWER MODEL HAS A NEWER FIRMWARE WHICH CAUSES CONFIGURATION MORE COMMUNICATION OF THE UNIT DIFFICULT. THIS COULD BE THE REASON DEVENET MODEL D770-DNA IS NOT COMPATIBLE WITH THE NEWER SOFT STARTER S8117 AND/OR CH STUDIO SOFTWARE IS OUTDATED. POSSIBLE SOLUTION, VERIFY NEWER SOFT STARTER S8117 ^{IN} CH STUDIO BEFORE ARRIVING TO SITE AS SPARES OR PROVIDE CORRECT HARDWARE/SOFTWARE TO CONFIGURE S8117 ON SITE.</p>	STR 9349254002 STR 5562	

(b)(6)

DATA

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H483028)	STR # or N/A	Defect# or N/A
9-13-15	2300		Tether move to 5502' / CP 12780 / winds 31.6 Kts / Temp 42.4°F Scheduled move		
9-14-15	0417		Out haul		
9-14-15	0435		Tether move to 10002' / CP 13977 / winds 29.6 Kts / Temp 33.3°F Move to meet mission requirements		
9-14-15	0540	(b)(6)	Page 4 Showed EBU 142 activated at 0523, De Activated at 0531L. During this 8 minute time LRU showed 400 Hz operating and EBU's 1, 2, 3 all in the green. Page 4 now shows EBU1 = .9, EBU2 = 1.0		
9/14/15	0700		EBU'S 1 & 2 ACTIVATED. 0500 DEACTIVATED AT 0714. EBU 1 = 1.8		
9/14/15	0915		EBU 2 = 1.9 AM. " DEACTIVATED AT 0923 " EBU 1 = 2.1		
9/14/15	0925		EBU 2 = 2.2 AM. " DEACTIVATED AT 0935. EBU 1 = 2.5.		
9/14/15	1221		EBU 2 = 2.7 AM. TETHER MOVE TO 9750' / CP 14493 / WINDS 35.5 KTS / TEMP 48.2°F		
9-14-15	1600		TESTED ROTARY DRIVES. CCW ROTARY DRIVE SM 27000 DRIVES WITH NO ISSUE. VERIFIED VIA PLUS+1 LAPTOP THAT THE JOYSTICK POSITION IS CORRECT FOR CCW OPERATION TESTED CW ROTARY		MSA JESAP181925 60001 STR 0562

Page closed by (QA): (b)(6) Date: 9/15/15 Page - 33 -

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-14-15 1715			<p>DRIVE, WHICH DID NOT DRIVE DURING THE INITIAL TEST, VERIFIED JOYSTICK POSITION WAS CORRECT VIA PLUS +A LATER. JOYSTICK POSITION IN CW DIRECTION MATCHES CW DIRECTION COMPARED PRESSURE. PRESSURE IN CW IS 1000-1200 PSI LOWER THAN CCW. DAMPING BLOCK FELT WARM, INDICATING THAT FLUID IS BEING SUPPLIED. OPENED CAPSTAN SIDE GEARBOX, OIL SMELLED BURNT. FURTHER WORK MAY BE NEEDED. AFTER SEVERAL TESTS, ROTARY DRIVES WORKED IN BOTH DIRECTION HOWEVER CW ROTATION IS SLUGGISH.</p>	<p>SR JD 355A1914854001 STR 5566</p>	
9-14-15 1715	(b)(6)		<p>ASS, OTH 103, EMPENNAGE SENSOR FAILURE FAULT PRESENT FOR MOST OF THE FLIGHT.</p>	<p>SR 5566 SV 355A1515170017</p>	
9-14-15 2020	(b)(6)		<p>EBU USAGE BELIEVED TO BE SM BE FALSE, USAGE ONLY PRESENT WHEN HEATERS ARE ON, HPDU PROBLEMSHOOTING WILL BE CONDUCTED AFTER NEXT REFLIGHT, 2 2.4A DISPLAYED ON UPS 1 AND 2, NOT 3, DURING HEATER OPERATION, VERIFIED VIA SCHEMATICS THAT 35A ON DC POWER SUPPLY WOULD REFLECT HEATER OPERATION. USAGE ON UPS 1 AND 2 IS 0A WHEN HEATERS ARE OFF AND DC PS SHOWS 7A.</p> <p>Tether move 9998 CP-1110 / Wind 22 Knts / Temp 45.1 F</p>		

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-15-15 0425			Tether move to 9798 / CP 11269 / winds 14.2 Kts / Temp 46.3 °F Scheduled move Lift V = 29,001		
9/16/15 12:28			TETHER MOVE TO 10,000 TPD / CP 13,744 / WIND 11.3 / TEMP 47.4 °F		
9-15-15 2020			Tether move to 9099 / CP 10576 / winds 3.5 Kts / Temp 51.4 °F		
9-15-15 2200			Tether move to 101 / CP 10713 / winds 1.9 Kts / Temp 55.7 °F		
9-16-15 0410		(b)(6)	Tether move to 7499 CP 9540 / winds 4.6 Kts / Temp 51.5 °F		
9/16/15 0825			TETHER MOVE TO 7400 4,703 / CP 11,576 / WIND 6.9 / TEMP 53.6 °F		
9/16/15 1725			Tether move 9531		
9/16/15 2035			Tether move 9531 9144 / CP 11047 / wind 10.1 / Temp 52.0 °F		
9-17-15 0555			Recovered TCOM Alt 606 at 0540 L. Total Alt time 87.03 Total system Alt time = 6590.09. Alt time = 282.53 During recovery at 2799' obtained level wind fault. After Several attempts to reset fault, had to hold down levelwind switch to complete inhaul. Once inhaul we observed levelwind switch had to make switch position adjustment. - No issues after adjustment	572 5867	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-17-05	1630	(b)(6)	<p>Attempted to install engineering spare HPDU (P/N: 3D16924G01 S/N: M002244, Rev K). The EBUS did not display signs of activation when the heaters were manually turned to ON. However, when the heat was commanded to OFF, the small battery currents occasionally exceeded 1.0 A fluctuating.</p>	STR 5566	JD 355A152570017
			<p>Another spare HPDU (S/N: M002281, Rev J) was modified to include 2 copper plate bars. A new label is required to properly identify this unit as Rev K. No issues with installation of this unit. The HPDU removed had Rev. K S/N: M004034</p>	JD 355A152570017 STR 5566	
9-17-05	1750	(b)(6)	<p>While troubleshooting the HPDU, blower blanket heater #5 CB repeatedly tripped after commanding the heat ON. Swapping HCU units had no effect. Removed FITSU #1 (P/N: 4D00433G01, S/N: M002282, Rev L) and replaced with (S/N: M002281, Rev L). Instead of blower blanket heater #5 tripping when heat is applied, blower blanket #9 trips when heat is activated. ^{still open issue as of 9/21/05} _{KEB}</p>	JD 355A152570017 STR 5566	
9-17-05	1800	(b)(6)	<p>Launched Team 514 got at 1737 L. Lst V = 30,299 Climbed to 7231.</p>	STR 5567	
9-17-05	1800	(b)(6)	<p>This entry is late. At approximately 1800 time repaired lead acid battery. Batter became disengaged with Forster alarm, so I located Forster and rechecked it properly. Forster cleared no issues during attempt.</p>	STR 5567	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9/18/15	0300	(b)(6)	TETHER MOVE 6949 CP 10369 / Temp. 54°F / WINDS 5.6 KTS		
9/18/15	0840	(b)(6)	TETHER MOVE TO 10000/CP 13000 / TEMP 48.4 / WIND 5.3		
9-18-15	1300	(b)(6)	Secured wind sock at tower of NMS.		
		(b)(6)	Inspected JB at nose latch. No water was found, the JB was completely dry. In the process of opening the JB the weatherproof seal was damaged. New weatherproof seal must be applied.		
9/18/15	1400	(b)(6)	MATT LEE AND CASEY TESTED THE ROTARY DRIVE AS PER NICK ANDERSON'S REQUEST. THE ROTARY DRIVE JOYSTICK IN THE WINCH CAB WAS MOVED OUT IN THE COUNTER CLOCKWISE POSITION FOR 5 SECONDS RETURNED TO NEUTRAL FOR 10 SECONDS THEN MOVED OUT IN THE CLOCKWISE POSITION FOR 5 SECONDS. AS PER THE ROTARY DRIVE PRESSURE READ OUT ON PAGE 5, COUNTER CLOCKWISE READ 3619 PSI AND CLOCKWISE READ 2,180 PSI.	STR 5562 TO JESLA 93415258002	
9/18/15	1615	(b)(6)	TETHER MOVE TO 9849 CP 12,641 / TEMP 57.1°F / WIND 12.3 KTS		
9/18/15	0900	(b)(6)	INSPECTED NOSE LATCH VISUALLY W/O DISASSEMBLING. RECEIVER SEEMS SLIGHTLY WORN. BOTH NOSE LINE (TOP 2) PULLIES SEEM TO HAVE EXCESSIVE PLAY, GROOVE IS SHOWING AROUND BEARING SURFACES. MAY NEED TO REPLACE OR HAVE REPLACEMENT ON HAND.		

Page closed by (QA): (b)(6) Date: 9/21/15

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-18-15	2045		TETHER MOVE DUE TO LOW WINCH TENSIONS. WIND 9.4 KTS		
9-19-15	0845		TETHER MOVE TO 7640'		
9-19-15	1304		TETHER MOVE TO 8249 / 12578 / 12.3 / 56.4		
9-19-15	2108		TETHER MOVE TO 7699 / CP 10250 / WIND 8.1 KTS / TEMP 58.2°F SCHEDULE MOVE.		
9-20-15	0440		Tether move to 7900 / CP 10835 / winds 14.5 kts / Temp 53.9 °F		
9-20-15	1335	(b)(6)	Tether move to 7499 / CP 12245 / winds 18.7 kts / Temp 65.8 °F		
9-20-15	2145		TETHER MOVE TO 7191 / CP 10165 / WINDS 2.3 KNOTS / 54.0°F		
9-21-15	0500		Tether move to 7449 / CP 10491 / winds 3.5 kts / Temp 53.4 °F Scheduled move		
9-21-15	0730		Tether move to 9648 / CP 11146 / winds 12.1 kts / Temp 47.7°F		
9-21-15	1700		TETHER MOVE TO 9318 / CP 11376 / WINDS 7.4 KNOTS / TEMP 46.1°F		
9-22-15	0130		TETHER MOVE TO 9001 / CP 11440 / WINDS 10.1 KNOTS / TEMP 48.8°F		

(b)(6)

9/22/15

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9-22-15	0720		Tether move to 9800' / CP 10560 / winds 7.2 Kts / Temp 46.7°F		
9-22-15	1505		Tether move to 9398		
9-22-15	2045		TETHER MOVE TO 9101' / CP 10960 / WINDS 4.0 KTS / TEMP 52.2°F		
9-22-15	0830	(b)(6)	TETHER MOVE TO 8850' / CP 10120 / WINDS 2.4 KTS / TEMP 50.3°F		
9-23-15	1207		Tether move to 9800' / CP 12804 / winds 4.7 Kts / Temp 62.7°F		
9-23-15	1945		TETHER MOVE TO 9000' / CP 10791 / WINDS 4.6 KTS / TEMP 52.3°F		
9-23-15	2250		TETHER MOVE TO 8000 FT REPLACED BULB IN 'MCC READY' LIGHT. PRESSURE CONTROL STATUS BRIEFLY INDICATED RED WHEN TOW HULL WAS STOPPED, SOLDIERS RESET ALARM BEFORE FAULT COULD BE SEEN BEYOND THE RED BORDER.		
9-24-15	0053		PER LOG ENTRY ON 9/18/15 BY C. BOATMAN, WE CONDUCTED ANOTHER ROTARY DRIVE TEST PER NICK ANDERSON'S REQUEST. AN ADDITIONAL PARAMETER WAS ADDED DURING THIS TEST.		
9-24-15	0810	(b)(6)	TETHER MOVE TO 9798' / CP 10731 / WINDS 6.5 KTS / TEMP 48.6°F SCHEDULE MOVE.		

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9/24/15	1800		TETHER MOVE TO 9549 / CP 11735 / WINDS 5.4 KTS / TEMP 58.5 F SCHEDULED MOVE		
9/24/15	2045		TETHER MOVE TO 8001 / CP 11279 / WIND 18.9 KTS / TEMP 50.5 F MOVE FOR REQUEST FOR MAINT COMM. TESTING		
9/24/15	0420		TETHER MOVE TO 8500 TD / CP 11727 / WIND 12.1 KTS / TEMP 47.6 OF		
9-25-15	0840		Replaced Rotary Drive Valve, Relief Vented Cartridge (2) P/N RUGS-LCN. Tested and Vcd Good.		
9-25-15	1132	(b)(6)	Tether move to 8700 cp 11780 / wind, 13 Kts / Temp, 57.4 OF		
9/24/15	1935		ETC # 1321 GUARDED FOR BROKEN WINDOW ON WIND CAB		
9/24/15	2030		TETHER MOVE TO 7103 TD / CP 12600 / WIND 16.3 / TEMP 53.0 OF		
9/24/15	0430		TETHER MOVE TO 7576 TD / CP 12378 / WIND 18.4 / TEMP 49.5 F		
9-24-15	1230		Tether move to 7676 / CP 13162 / WINDS 23.4 Kts / Temp 50.2 F		
9/24/15	2000		RECOVERED TCM PUT GO7 @ 1827 USE FOR MAINT TRAINING JES LORR PAPER		

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9/21/15	2000	(b)(6)	<p>START. DURING ARMY PREP FOR FLIGHT ACTIVITIES SIGNIFICANT HYDRAULIC LEAK IN AWP NOTED. ADVISED ARMY FD TO DECENT TRAINING UNTIL LEAK WAS REPAIRED. LAUNCHED TECH TEAM FOR GOB @ 1920 HLT TO 17023 FEET - ARMY THEN DECIDED TO START PRACTISING "REWORKING DOWN" THE MAINS W/OUT NOTICE. DURING THIS TIME THE TETHER DEPLOYED INDICATED WAS RESET TO STFD. TFD MANUALLY SPUN OUT TO ENABLING NAVIGATION.</p>		
9/21/15	0340	(b)(6)	<p>CONT TROUBLESHOOTING ON AWP. AFTER TESTING THE LEAK SEEMS TO BE NOTED MAINLY WHEN MOVING THE BASKET ON THE TOP OF THE BASKET. REQUIRES A JLG REP FOR REPAIR.</p>		
9/21/15	0345	(b)(6)	<p>TOTAL MOVE TO 6587 TPO / CP 11,674 / WIND 12.4 / TEMP 53.6 F</p>		
9/27-15	1220	(b)(6)	<p>Tether move to 6099 / CP 12139 / winds 12.1 kts / Temp 54.2 F Scheduled move</p>		
9/27-15	1300	(b)(6)	<p>United Rentals came to site to inspect AWP. Found "blowin" O-Ring seal causing leak. O-Ring was replaced.</p>		
9/21/15	20:20	(b)(6)	<p>TOTAL MOVE TO 6,204 TFD / CP 11,193 / WIND 12.9 KTS / TEMP 55.8 F</p>		

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A																				
9/28/15	1200	(b)(6)	TESTED MOVIE TO 7614, CP 10,220, WIND 6.8 Kts, 57.8°F Tether movie to 2713/CP 11482/Winds 7.3 Kts/Temp 53.7°F Scheduled movie																						
9/28/15	1200	(b)(6)	Recovered Team FH 609 at 1155 L. Recovery due to army request to perform cert. Reaction Ffls. Total flt time = 146.58. Total system time = 6847.51, Total ALU time = 539.95																						
9/28/15	1640	(b)(6)	Army Training + Cert Ffls <table border="1"> <thead> <tr> <th>ALT</th> <th>Launch</th> <th>Recover</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>609</td> <td>1216</td> <td>1240</td> <td>.40</td> </tr> <tr> <td>610</td> <td>1254</td> <td>1316</td> <td>.37</td> </tr> <tr> <td>611</td> <td>1436</td> <td>1454</td> <td>.30</td> </tr> <tr> <td>612</td> <td>1457</td> <td>1513</td> <td>.27</td> </tr> </tbody> </table>	ALT	Launch	Recover	Time	609	1216	1240	.40	610	1254	1316	.37	611	1436	1454	.30	612	1457	1513	.27		
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611	1436	1454	.30																						
612	1457	1513	.27																						
9/28/15	1640	(b)(6)	REMOVED AND REPLACE FITSU#1 TO CORRECT THE PROBLEM WITH THE HEATER BLANKET FOR THE BLOWER. TURNED ON THE HEATER CONTROL UNIT TO MANUAL DIV AND NON OF BLANKET BRAKED TRIP. ALSO BLOWER #2 IS WORKING AS WELL. REMOVED FITSU#1 P/N 4D004336P1 STAT REV. L SNM0000001 (INSTALLED REV. M SNM001373 AEK057AT BACK TO OPERATIONAL STATUS.																						

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9/28/15	1730		RE-INSPECTED NOSE LINE SHEAVES ON TOWER UNDER TENSION OF LAUNCH AND RECOVERY. SHEAVES SEEM LOCKE ON BEARING SURFACE BUT WERE 100% OPERATIONAL DURING OPERATION. THIS IS AN ITEM THAT WILL NEED MONITORING FROM TIME TO TIME; MAY STILL WANT TO ORDER REPLACEMENTS	21302	
9/29/15	2036		LAUNCHED TORM FET 613 @ 18:17 LOCAL AND RECOVERED FET 613 @ 18:34 LOCAL FOR ARMY RE-CERT FLIGHTS TT 65849.13 (13 FTS OR 700M)	00302 9/29	
9/29/15	2037		LAUNCHED TORM FET 614 @ 19:58 LOCAL TO 65853 FEET TO CEP 10,242.425/WIND 11.3 FTS/10MP 55.5°F	00372 9/29	
9/29/15	0418	(b)(6)	TOWER NUMBER 5978 RD/CP 10,773 /WIND 13.5 FTS /94.7°F - OCA/RRWD	08182	
9/29/15	1010		RECOVERED FLIGHT 614 AT 0749 TO SUPPORT ARMY CERTS SUPPORT LAUNCHED FLIGHT 615 FROM 0852 TO 0921, FLIGHT 616 FROM 0931 TO 0951 AND FLIGHT 617 AT 0953. CERTS WERE STOPPED WITH THE AEROSTAT AT 2004 FT TO ALLOW NOSE AND BOOM HPUs TO COOL.	14102	
9/29/15	1230		RECOVERED FLIGHT 617 TO THE AMS. 2 SOLDIERS WILL BE ENTERING THE WINDSCREEN TO LOAD OCTOBER CRYPTO.	16302	
9/29/15	1329		2 SOLDIERS AND (b)(6) (RAYTHEON) ENTERED THE WINDSCREEN TO UPLOAD OCTOBER CRYPTO, ALONG WITH TOOLS AND ONE LADDER.	17292	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
9/29/15	1500	(b)(6)	2 SOLDIERS AND (b)(6) (RAYTHEON) EXITED THE WINDSCREEN WITH TOOLS AND ONE LADDER.	1900Z	
9/30/15	0500	(b)(6)	LAUNCHED FLIGHT C18 @ 0540 LOCAL TIME. TETHER DEPLOYED 5200' CP= 12,607 / WINDS - 27.2 KTS / TEMP - 63.3°F — 3 Sprays damaged for notification	0909Z	
9/30/15	1235	(b)(6)	TETHER MOVE TO 5500' / CP 11493 / WINDS 16.4 KTS / TEMP 68.3°F	1635Z	
10/1/15	2235	(b)(6)	REMOVED FROM FLT C18 BECAUSE OF A HUMMING IN THE BATHROOM?? ANYWAY DO ISSUES IN C881.84	0035 10/1	
10/1/15	2300	(b)(6)	NOTED HE TEMP INDICATES 108°F, PROBE NEEDS TO BE REPLACED PRIOR TO NEXT FLIGHT.	50 JCSA/52780005 STR 5580 0350Z 10/1	
10-15	1515	(b)(6)	Quantity of fuel checked 98.79%, ADDED THE REST OF HELIUM TANK 2 FROM SKID 415.5. Approx 5000 to 6000 lbs	1915Z	
10-15	1505	(b)(6)	AS PER TEAM FSA. ADDED TWO TUBES (4 AND 5) FROM SKID 451.5. LIFT 232192 LBS.	1945Z	
10-15	1700	(b)(6)	TROUBLE SHOT HE TEMP SENSOR. NEEDS TO BE RECALLED P/N: 3D14071	50-JCSA/52780005 STR 5580 2100Z	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10-2-15 2030			Replaced Temp Sensor Assembly (He) P/N 3D14 071 001 Component checks good.	50/5580 5412 00302 b/3	13002
10/4/15 0740			VALUED 3.5 MINS OF THE ESTIMATED LIFT LOW BLKED UPS WILL CHECK UPON NEXT FLIGHT, NO FLIGHT @ THIS TIME DUE TO VARIABLE HIGH SURFACE WINDS.	12402	
10/4/15 0900			BRIEF UTILITY BEARON LOSS - ALL SYSTEMS GREEN/POWER RESTORED		13002
10/4/15 2055		(b)(6)	Launch on station. Cp 11345 / Wind 15 Kts / Temp 45.3 Altitude 7696 FT Unlatch time was 2018 Airborne lft check = 30, 442 @ 7696' winds 11.0 kt Temp 52.9 F	005514/5	
10-4-15 2235			Lubed rotary drives with Gear Shield grease.	0235210/5	
10-5-15 0500			Tether move to 7899' / Cp 12230 / Winds 18.7 Kts / Temp 53.8 F	02002	
10-5-15 0515			hate entry. After launch blower #2 alarm came on. Suspect FTSCU/Blower/Cable issue. Parts ordered for Trouble shooting and to be delivered to site	30/35815278002 612 011928	
10-5-15 1900			E-Tac inspected Nose latch junction boxes and found the wiper to be dry and void of corrosion. Tech then sealed box. Inspection of lower box revealed water in box and corrosion on bus bar. Bus bar and new terminal ends ordered.	23002	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10/5/15	2200		Tether move to 8549' / CP 11917 / Winds 16.5 Kts / Temp 49.6 °F Time of move 2118L	02002	14/6
10/6/15	0500		Tether Move 8760' / CP 12459 / Winds 22.8 Kts / Temp 49 °F	09002	
10/6/15	1255		TETHER MOVE TO 10,000' / CP 12,915 / WINDS 19.9 KTS / TEMP 58.1 °F	16552	
10-6-2010D			Tether move to 9775' / CP 12103 / Winds 15.5 Kts / Temp 45.7 °F Scheduled move	01002	10/7
10/7/15	0500		Tether move to 9362' / CP 12916 / Winds 25 Kts / Temp 45.2 °F	09002	
10-7-15	1130	(b)(6)	Took HYDRAULIC FLUID SAMPLES FROM ALL HPU's. SUGGEST DRAINING BOOM HPU AND FLUSHING IT, TO REMOVE ALL WATER FROM THE SYSTEM... ASAP!!	15302	
10-7-15	1241		TETHER MOVE TO 9750 FT. CP 13500 / WINDS 15.8 KTS / TEMP 46 °F	16472	
10/7/15	2100		Tether move to 9250' / CP 13060 / Temp 90 °F / Winds 27.5 Kts	01002	10/8
10/16	0506		TETHER MOVE TO 9000' / CP 12,576 / WIND 23.7 KTS / TEMP 41.2 °F @ 4000L	09062	
10-8-15	1015		RECOVERED FLIGHT SM 600 ⁶¹⁹ FOR ARMY TRAINING AT JOBS 15293009 0830. INSPECTED NINE LINE DRUMS INHAUL. DAMAGE WAS 5/8 OF THE WAY UP THE LINE, REQUIRING REPLACEMENT.		M152

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
			Continued REPLACED NOSE LINE. ARMY STILL WANTS TO TRAIN, SO WORK WILL START ON JB208 ONCE AEROSTAT IS PARKED AT MISSION ALTITUDE.	10/JEA152730009 STR/5582	
10/8/15	1305	(b)(6)	ARMY BEGAN TRAINING. FLIGHT 62P LAUNCHED AT 1305. UP/DOWNS WILL CONSIST OF FLIGHTS FROM POINT TO TAGLINE SEPARATION, THEN BACK DOWN.	1745Z	
10/8/15	1407	(b)(6)	AEROSTAT REACHED MISSION ALTITUDE OF 8502' CP 12,954/WINDS 16.2 KTS/TEMP 55.7°F. ARMY FD WENT FROM POINT DIRECTLY TO MISSION ALTITUDE AFTER 1 UP/DOWN. NO MOORING OCCURRED STILL FLIGHT 62P.	1807Z	
10/9/15	2140	(b)(6)	TETHER MOVE TO 8200 TD/CP 13,554/WIND 17.9/TEMP 47.8°F	0142 1419	
10/9/15	0500	(b)(6)	TETHER MOVE TO 8479 TD/CP 13,321/WIND 26.8/TEMP 43.6°F	STR/5583	
10/9/15	1000	(b)(6)	E-TECH REPLACED CORRODED TERMINAL BLOCK INSIDE NOSE LATCH COVER JUNCTION BOX. UPON COMPLETION, E-TECH SEALED BOLT HOLES IN THE COVER AS WELL AS LAID A BEAD OF SEALANT AROUND THE ENTIRE COVER GASKET IN ATTEMPT TO RESTORE WATERTIGHT INTEGRITY OF THE JUNCTION BOX AND PREVENT FURTHER CORROSION RELATED ISSUES. STATUS OF NOSE LATCH INDICATOR WILL BE DETERMINED UPON RECOVERY AND MOORING OF FLIGHT 62P.	STR/5583 0815 1000	1400Z to be added

Page closed by (QA) (b)(6) Date: 10/9/15

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10/9/15	12:30		TETHER MOVE TO 5212' DUE TO POTENTIALLY INBOUND STORMCELL. CP 14,441 / WINDS 28.7 KTS / TEMP 63.1°F	16802	
10/9/15	16:34		RECOVERED FLIGHT 620 DUE TO THREAT OF IMMINENT LIGHTNING STRIKES IN THE AREA. UPON MOORING INTO THE NOSE LATCH, TELEMETRY DISPLAYED ALL THREE LATCH INDICATORS. APPROXIMATELY TEN MINUTES LATER THE "PROX" INDICATOR EXTINGUISHED. TROUBLESHOOTING WILL CONTINUE.	20342	
10/9/15	18:22	(b)(6)	W/CUT ADVISING TEAM ARMY DEEMED TO DISCONNECT FIBER W/ STORM IN THE AREA, TO "UNWIND" IT. THIS IS NOT A GOOD PROCEDURE AS IT'S BOTH POTENTIAL AND THE MOST AT-RISK. ADVISED ARMY: PD THAT THIS SHOULD NOT BE DONE.	20002	
10/9/15	20:45		ARMY WAS UNABLE TO RECONNECT FIBER, MAT & STEIN CALLED OVER AND FIBER JOBT PROBABLY TELEMETRY REBOUND. FIBER WAS ALSO UNWIND FROM TOWER.	00452 10/10	
10/9/15	22:00		LAUNCHING TEAM PUT 621 @ 21:38, GOING TO ROLLY LOAD CABLE CABLES HUNG ON J-RING BOLT-CABLES SHOWN AND AIRPOT OFF OF LOAD CABLE, CABLES WILL HAVE TO BE REPAIRED AND POSSIBLY LOAD CABLES WERE DEFECTIVE OR NOT SET UP.	50 JES4182840207 STR 5581 02002 10/10	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H483028)	STR # or N/A	Defect# or N/A
10/11/15	1430		E-TECH'S TOMMY AND CASEY UNINSTALLED DAMAGED LOAD CELL (SN: 1293383) AND LOAD CELL CABLE (4P1255601) AND INSTALLED THE LOAD CELL (SN: 1279947) AND LOAD CELL CABLE FROM SYSTEM 2. OPERATIONAL TEST SATISFACTORY.	301 JES/152840007 STR 55581	108502
10-11-15	1600		LAUNCHED FLIGHT 6022 AT 1537. 41FT: 3080LBS	2000Z	
10-11-15	1632		REACHED ALT 9999' TETHER DEPLOYED 17.1KTS/96.5° / 12,950 CP NOTICED ON OUTRUL PINK TAPE @ 6008'. HAD WULKA STOP OUTRUL, REMOVED TAPE TO INSPECT. FOUND NO ISSUES.	2002Z	
10/12/15	1452	(b)(6)	IN REGARDS TO THE LOG ENTRY ON 10/9/15 AT 1634, SHORTLY AFTER THE ISSUE WITH THE PROX LIGHT WAS LOGGED, THE INDICATOR RE-LIT AND ALL THREE INDICATORS REMAINED LIT UNTIL THE LAUNCH OF FLIGHT 622. ALSO, THE BLOWER #2 ISSUE LOGGED ON 10/5/15 SEEMS TO HAVE BEEN A MOISTURE ISSUE, AS IT HAS NOT REOCCURED SINCE. WE WILL BE RETURNING ALL ASSOCIATED PARTS THAT WERE ISSUED BACK TO THE WAREHOUSE.	1852Z	
10/12/15	1600		TETHER MOVE TO 9700'. CP 13772 / WINDS 24.5 KTS / TEMP 52.5°F	2000Z	
10/13/15	0605		last tether log move was at 11.56 pm (23.56)	1005Z	
10/13/15	0650		Tether move to 4818' / CP 1345416 / Temp 50°F / Winds 24 Kts	1050Z	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defects# or N/A
10/13/15	10:28	(b)(6)	hatched at 08:26 Ending Flight 6.22 1226	14422	
10/13/15	10:44	(b)(6)	unlatched at 09:32 For Cert Flight 6.23	14442	
10/13/15	10:45	(b)(6)	hatched at 10:13 to End Cert Flight 6.23	14452	
10/13/15	11:34	(b)(6)	Put Raytheon in wind screen to work on payload	15342	
10/14/15	14:00	(b)(6)	Took Raytheon out of wind screen at 14:00	18002	
10/13/15	14:05	(b)(6)	Power went out at 13:45 Genis kicked on lost 60 Hz to morrig system	18062	
10/14/15	14:00	(b)(6)	LATE ONMAY WAS ON OTHER SITE TEAM FET 624 LAUNCH @ 18:59 LL ON 10/13. REMOVED NO TEAM PRESENT ON SITE DUE TO 400 Hz LOSS @ 610. DURING COURSE ANNY AD TAKEN AT THE HOURS NOTICES AND DIDNT LET THE WAY THE TETHER WAS WARRING ON DUMM, TEAM CANNOT LEFT GO TO ASSES THE SITUATION. UPON INSPECTION ALL NORMAL NO ISSUES OUT HOLD CONT TO THE PD. @ 6230 LL TETHER MADE FOR SOME REASON. TETHER DEPLOYED NOW 2003 TD TPO INDICATING EMP. PROBABE SENSOR FAILURES ON OFF/ON/OFF WILL THROUPELACOST UPON NEXT RECOVERY. ALSO OF NOTE CP TETHER CONT. TO FEEL EVEN NOW w/ 610 LOAD CABLE AND CABLES.	22592-10/13 08002	

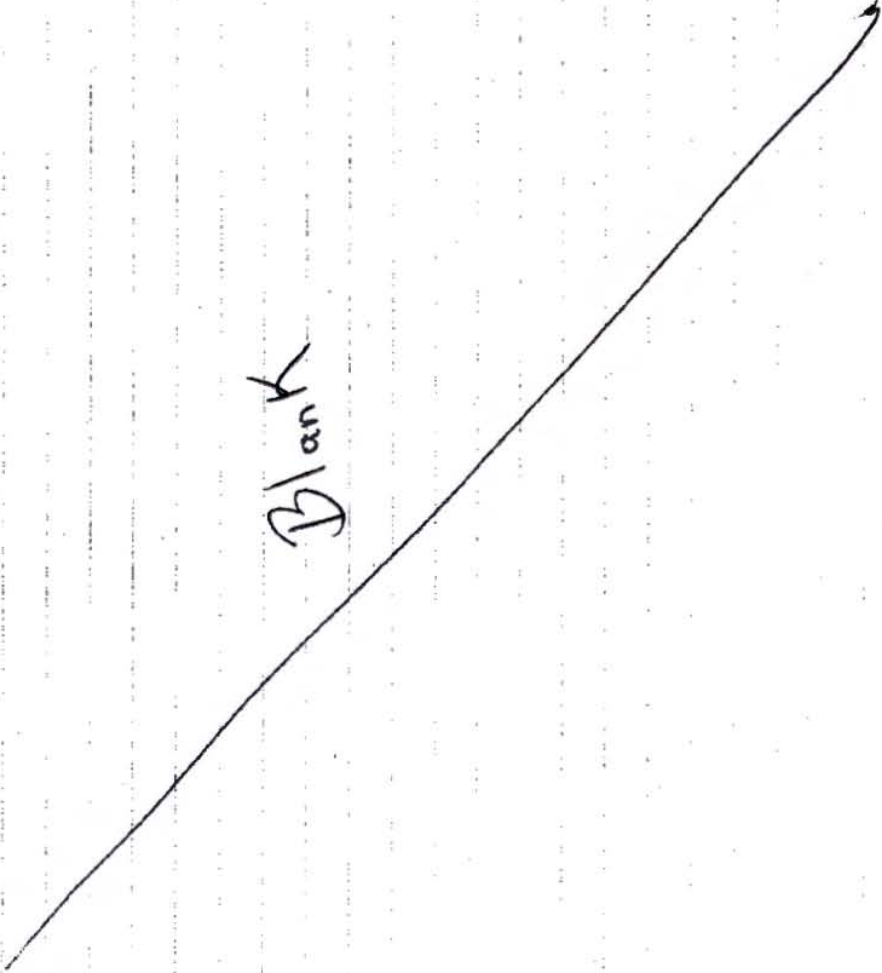
Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10/14/15	1204	(b)(6)	Tether move to 7503	16042	
10/14/15	1805	(b)(6)	Began in haul of tether for Cert Flights latched at 1616 to End Flight 624.	16052	
10/14/15	1215	(b)(6)	Army Started doing preflight unlatched at 1235 to start Cert flight 625	16152	
10/14/15	1305	(b)(6)	Latched at 1300 ending cert flight 625	17052	
10-14-15	1430	(b)(6)	Mil Air arrived on site to change out faulty eye compressor relay switch. Unit changed out and tested 40. Rep also found eye low on Freon and filled.	18502	
10-14-15	1755	(b)(6)	Launched TOM FLT 422 at 1748L for Army Cert flt Recovered TOM FLT 422 at 1805L FLT time 126 hrs Total flt time = 7051.69 THL APC time = 744.13	21552	
10/14/15	1800	(b)(6)	TECH'S CAUSED TPIU FOR H2O IN THERM - NONE NOTICED POSSIBLE MOISTURE OBSERVED IN LINES OR THE FN ANOMALY/PIN WE WANTED TO SUBSIDY AND PREPARE TRAINING ADDITIONAL INSPECTIONS BUT HERMES INOP - SWAPPING NOT POSSIBLE.	00202	1015
10/14/15	2016	(b)(6)	LAUNCHED TEAM FLT 627 TO 832610 / 13149 / 27 ORCS / 26.90 = 6149 36,912 - 954	00362	1015

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defe or N
10/14/15	9:30		Tensioner on ball screw was working some clicking noises. Took off cover and appears to be misaligned to the left. Tried realigning but I don't feel comfortable adjusting the tensioner mid flight.	STR 5993 1300Z	
10/15/15	0705		RECOVERED TOWER FIT 627 @ 04:33 local - PLATEFORM GOOD ARMY HAD TO RELOAD KEYS @ 06:00	085Z	
10/15/15	0705		Inspected level wind tension sprocket and found sprocket teeth riding on inboard chain link. Reset set collar to allow chain move off chain link and center. Will observe during next tether movement to ensure adjustment worked. Start time 0155 End time 0715	STR 5993 1105Z	
10/15/15	0800		During start of shift, noted MECU fault alarm. Upon inspection noted that MECU on switch on LTA panel was in "off" position. Need to remind Army that for MECU to work, must be in "on" position. Once in "on" position fault cleared. Start time 0750 end time 0800	1200Z	
10/15/15	0810		Inspected Nose latch due to Nose latch alarm. When moved and in "neutral" position alarm illuminated. When nose attitude changes - or + light goes out. Adjusted nose "probe" latch sensor while powered and light goes out however light illuminates after several minutes. Need to further investigate Nose latch sensor.	STR 5990 1210Z	

(b)(6)

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10-15-15	1100		Launched TCOW FLT Led8 at 1048L LIFT check 31,087 Climbed to 8000'. Level wind spraket tensioner still makes occasional "pop + clicks" will further investigate	STR-5593 1500Z	
10-15-15	1155		R/R NMS top hatch gas strut. Install heli-coils on upper attachment bracket of hatch. Check 4.0 Start time 1125 End time 1155	STR 5592 1505Z	
10/15/15	1420		TETHER MOVE TO 5999' / CP 13,505 / WINDS 21.4 KTS / TEMP 50.7°F LATE ENTRY.	1820Z	
10/15/15	2220	(b)(6)	TETHER MOVE TO 6251' / CP 16,100 / WINDS 37.7 KTS / TEMP 37.9°F	0220Z (0/16)	
10/16/15	0400		TETHER MOVE TO 6500' / CP 16,676 / WINDS 42.3 KTS / TEMP 43.7°F	0800Z	
10/16/16	0914		Tether move to 9202' / CP 15037 / winds 37.7 KTS / Temp 35.0°F	1314Z	
10/16/15	0917		Late Entry For 10-15-15 went up tower at 1500 to look at Center post. Sensor it looks messed up on the end So it need to be replaced Drawing 3D/6580 N/A F/N 27 3 wire D/C inductive Prox Sensor Part# 87IC-DT 8NPI2-UR work lasted About 30 mins	open 10 1317Z	
10/16/15	10.11		Lost 60 Hz at 10.00 Here did hot loose 400 Hz	1411Z	

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Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defects# or N/A
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Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10-16-15	1430		Completed prep for Hyd Flush Unit. Added 60 gal. Requested another 55 gal to be delivered to site	1830Z	
10-16-15	1445		Received Noise Pkx Sensors. Parts are on hand for install 10/17/15 AM	1845Z	
10-16-15	1445		Tether move to determine line of Site minimum altitude with SDoc. Went down to 2500 and back up to 9000 ft CP 14133' / Winds 29.5 kts / Temp 27.70F	1845Z	
10-16-15	1445	(b)(6)	Received APCU spare (in high bay). Suspected bad APCU causing Emp failure alarms. Need to further trouble shot	1845Z	
10-16-15	1530		A/B Humidity alarm illuminated. Steady on for minutes then goes out	1930Z	
10/16/15	2300		TETHER MOVE TO 8750' / CP 14,985 / WINDS 33.3 KTS / TEMP 26.8°F	0300Z 10/17	
10/16/15	1440		TETHER MOVE TO 8491' / CP 15,294 / WIND 27.2 / TEMP N/A IN ORDER TO GET OUT OF ROUGH AIR AND BEFORE CLOUDS ARE IN < 32°F CONDITIONS. AMB TEMP AND HC TEMP FLUX WIDEN - ADDITIONALLY PRESSURE CONTROL SWITCHED TO OVERCULP momentarily - WILL CHANGE TPIO + CHECK FOR H2O IN PRESSURE LINES CHECK NEXT LATERAL. LINES REPORTED IN MA BURN 60 70C.	1840Z	

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10/17/15	2305		TETHER MOVE TO 5250' / CP 14,127 / WINDS 27.2 KTS / TEMP 31.1°F	03052	
10/17/15	09103		TETHER MOVE TO 9601' / CP 14,476 / WIND 30.4 / TEMP 7-15°F (?)	13032	
10/17/15	1302		ADVISED AMM'S PD TO INHALE - BALLOON IN CLOUDS TEMP 13°F	17022	
10/17/15	13:20		INHALED TO 5794 TFD - CLEAR OF CLOUDS - 10/17/15 REPORTED IN AREA FROM 6K - 7K SHOULD BE ABLE TO OBTAIN AFTOL DATA. (CLEAN SKY)	17002	
10/18/15	2:15		TETHER MOVE TO 5651' / CP 14,454 / WINDS 31.4 KTS / TEMP 26.4°F	00752 10/19	
10/18/15	0500		TETHER MOVE TO 5900' / CP 14,981 / WINDS 27.6 KTS / TEMP 20.9°F	09002	
10/18/15	0921		Tether move to 7662	13202	
10-14-19	1900		Replaced transzorb CR 43 (P/N: 15KP33) in FITSU #1 (S/N: M002281). Replaced transzorb CR218 (P/N: 15KP130C), and CR86 - CR189 (P/N: 15KP220C) in FITSU #1 (S/N: M002282). No issues. These units need to be installed upon next maintenance period to verify HCU circuit breakers no longer trip. Job order # 152820004	23002	
			Start time: 1400 End time: 1900	18002 23002	

(b)(6)

10/17/15

Prepared by: [redacted]

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10-19-15	11:05 2:20	(b)(6)	Started Flushing System at 1300. Suggestably used Compressed tank to blow out certain parts of System after blowing out contaminated fluid. Started to hook up the Flushing unit and realized we did not have necessary fittings. Re-connected system & refilled with hydraulic fluid, turned on HPU. System is still considered contaminated but will properly work during inhaul for the time being. Ended at 2200		1700Z to 0200Z 10/20
10-20-15	0153		Tether Move 9999 FT / CP 12703 / Temp 40.7 F / Wind 25.5 Kts		0555Z
10/20/15	0700		Tether move to 9897 FT / CP 13570 / Temp 41.2 F / Wind 12.1 Kts		1230Z
10/20/15	1730		Tether move 9997' / CP 12410 / Temp 47.7 F / Wind 23.4 Kts		2130Z
10-20-15	0115		Tether move to 9209' / CP 11757 / Wind 1.3 Kts / Temp 44.2 F		0552Z
10/21/15	0918	(b)(6)	Tether move 10000' / CP 13320 ¹⁰ / Temp 53.3 F / Wind 19.1 Kts		1318Z
10-21-15	1715		Tether move to 9849' / CP 13159 / Wind 25.1 Kts / Temp 42.1 F		2115Z
10/22/15	0115		Tether move to 9244' / CP 11370 / Wind 9.5 Kts / Temp 45.2 F		0515Z
10/22/15	0915		TETHER MOVE TO 9681' / CP 13631 / WINDS 23.7 KTS / TEMP 53.4 F ARMY DOING QUARTERLY MAINTENANCE, WHICH INCLUDES TESTING E-STOPS WHILE OUTHAULING. ALL E-STOPS VERIFIED TO WORK CORRECTLY.		1315Z

Date: 10/22/15

(b)(6)

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Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10/22/15 1811		(b)(6)	Tether move to 10000' / CP 16091 lb / Wind 41.2 Kts / Temp 47.7 °F		
10-22-15 2320		(b)(6)	Changed gear oil in rotary driver 1-2 with 80W-90 oil. Used approx 5 qts. for both drives combined. Start 2345. Stop 2315	STR 5598	
10/23/15 0213		(b)(6)	Tether move to 9819' / CP 14035 lb / Temp 44.9 °F / Wind 35.2 Kts		
0215 0940		(b)(6)	INSPECTED CASE HAZ SHEAVES. DAMAGED BOTH LUBED PINS AND ADJUSTER SHIMS. BOTH SPIN FREELY. INSPECTED NOST LATCH. SHOWING SIGNS OF WEAR BUT NOT ENOUGH TO DEGRADE THE MUSE L-OL. YET. FURTHER WORK MIGHT BE NEEDED AS MORE FLIGHTS ARE LAUNCHED/REQUIRED. <u>STOP!</u>		
10/23/15 1004		(b)(6)	TETHER MOVE TO 9400' / CP 13164 / WINDS 30.4 KTS / TEMP 49.6 °F		
10-23-15 1010		(b)(6)	Tether move to 9449' / CP 12833 / WINDS 25.0 Kts / Temp 47.2 °F		
10/24/15 0214		(b)(6)	Tether move to 9200' / CP 11172 / WINDS 9.8 Kts / Temp 46.7 °F		
10/24/15 1004		(b)(6)	TETHER MOVE TO 9697' / CP 13396 / WINDS 9.6 KTS / TEMP 58.5 °F		
10-24-15 1500		(b)(6)	REMOVED BOTH CLONE HAZL SHEAVES AND REPLACED BEARINGS. REINSTALLED SHEAVES. NO ISSUES.		

(b)(6)
Date: 10/26/15

Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10/24/15	1707	(b)(6)	Tether move at 1654 to 9249 / CP 13520 / Wind 22.5 Kts / Temp 52.5°F		
10-24-15	1720	(b)(6)	System pitched to 22.30 Needs windscreen inspection on next recovery		
10-25-15	0300	(b)(6)	Tether move to 8999 / CP 13140 / Winds 20.4 Kts / Temp 43.7°F		
10-25-15	1020	(b)(6)	TETHER MOVE TO 9299 / CP 14410 / WINDS 25.6 Kts / Temp 42.6°F		
10-25-15	1250	(b)(6)	CONDUCTED SEVERAL TESTS TO TROUBLESHOOT THE OTH/OT7 ALARMS. FOUND THAT WHEN BLOWERS 3 AND 4 ARE COMMANDED ON, PLUS OPENING CHECK VALVES 3 AND 4, THE ALARM IS NO LONGER DISPLAYED. IT MIGHT BE BENEFICIAL TO INSPECT THE BALLOONET AND PLENUM DUCTS TO ENSURE THERE ARE NO RESTRICTIONS PREVENTING AIR FLOW TO EMPENNAGE TOWER OF AEROSTAT. SHUT — STOP —		
10-25-15	1430	(b)(6)	COMPLETED ALL PMS FOR MMS EXCEPT FOR THE NOSE LATCH. THE NOSE LATCH COULD NOT BE COMPLETED DUE TO THE SWARM OF BEES. SHUT STOP		
10-25-15	1830	(b)(6)	Tether move to 9541 / CP 12067 / Winds 17.3 Kts / Temp 38.7°F		
10-26-15	0100	(b)(6)	Tether move to 9200 / CP 13700 / Winds 28.6 Kts / Temp 42.0°F		
10-26-15	0900	(b)(6)	TETHER MOVE TO 9326 / CP 14115 / WINDS 24.7 Kts / Temp 35.3°F		

(b)(6) Date 10/27/15

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Date of Entry	Time of Entry	Entry by	Description of work, affected part identification, etc. (reference procedure H463028)	STR # or N/A	Defect# or N/A
10-26-15	0845		TETHER MOVE 8899' / CP 12683 / WINDS 9.4 KTS / TEMP 38.9°F		
10-27-15	0050		Tether move to 8649' / CP 11563 / WINDS 8.4 KTS / Temp 39.5°F		
10/27/15	0945		TETHER MOVE TO 9999' / CP 12,131 / WINDS 10.2 KTS / TEMP 38.3°F		
10/27/15	1615	(b)(6)	TETHER MOVE TO 7998' / CP 13,393 / WINDS 10.4 KTS / TEMP 48.8°F		
10/27/15	2245		Tether Move to 6500' / CP 14451 / WINDS 30.5 KTS / Temp 45.3°F		
10/27/15	0100		TETHER MOVE TO 6502' / CP 16104 / WIND 37.3 / TEMP 46.0°F		
10/27/15	1630		AT APPROX 11:30 ALL TETHER FAILED IN TURBULENCE - INVESTIGATION TO FOLLOW. SIGNIFICANT DAMAGE TO MULTIPLE AIRS AND ASSISTANCE ON THE MMS		

EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET

For use of this form, see DA PAM 750-8; the proponent agency is DCS, G-4.

1. ORGANIZATION A-3RD ADA (JLENS)				2. NOMENCLATURE AND MODEL MOBILE MOORING STATION (MMS)			
3. REGISTRATION/SERIAL/NSN 0002	4a. MILES	b. HOURS	c. ROUNDS FIBED	d. HOT STARTS	5. DATE 22 OCT 15	6. TYPE INSPECTION Quarterly	

7. APPLICABLE REFERENCE			
TM NUMBER JLENS-A-M0-60-0000-00A-300A-A	TM DATE 20141205	TM NUMBER JLENS-A-M0-60-0001-00A-300A-A	TM DATE 20141205
COLUMN a - Enter TM item number. COLUMN b - Enter the applicable condition status symbol. COLUMN c - Enter deficiencies and shortcomings.		COLUMN d - Show corrective action for deficiency or shortcoming listed in Column c. COLUMN e - Individual ascertaining completed corrective action initial in this column.	

STATUS SYMBOLS

<p>"X" - Indicates a deficiency in the equipment that places it in an inoperable status.</p> <p>CIRCLED "X" - Indicates a deficiency, however, the equipment may be operated under specific limitations as directed by higher authority or as prescribed locally, until corrective action can be accomplished.</p> <p>HORIZONTAL DASH "-" - Indicates that a required inspection, component replacement, maintenance operation check, or test flight is due but has not been accomplished, or an overdue MWO has not been accomplished.</p>	<p>DIAGONAL "/" - Indicates a material defect other than a deficiency which must be corrected to increase efficiency or to make the item completely serviceable.</p> <p>LAST NAME INITIAL IN BLACK, BLUE-BLACK INK, OR PENCIL - Indicates that a completely satisfactory condition exists.</p> <p>FOR AIRCRAFT - Status symbols will be recorded in red.</p>
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ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IN ACCORDANCE WITH DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HEREON.

8a. SIGNATURE (Person performing inspection) SBC (b)(6)	8b. TIME 1840E	9a. SIGNATURE (Maintenance Supervisor) SPL (b)(6)	9b. TIME 2314Z	10. MANHOURS REQUIRED
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TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
20		HPU's: With the HPU's off, exercise all the HPU change over panel valve handles. Turn each handle several times ensuring complete freedom of movement. Return handles to original position when complete.	exercised all handles	(b)(6)
27		CAPSTAN: Lubricate the upper capstan drum load sensing sheave and idler sheave. Lubricate the upper and lower capstan drum pillow block bearings, high and low tension sheaves, and the high and low tension idler sheave.	LUBRICATED	(b)(6)
55		MOORING TOWER AND SAFETY RAILS: Inspect all placards for legibility	checked all rails and placards	(b)(6)
56		GROUNDING SYSTEM: Visually inspect grounding ring for cracks, damage or corrosion	inspected	
57		Visually inspect all copper wire connections for corrosion	inspected	
66		ROTARY DRIVE DAMPENING DEVICE: Inspect for hydraulic leaks, loose or missing hardware	inspected	
68		MACHINERY ENCLOSURE CENTRAL BEARING: Lubricate MEC bearing	TCOM SHAWN MONAHAN INSPECTED	
69		NOSE LINE WINCH/CLOSE HAUL WINCH APU EMERGENCY STOP BUTTON: Energize HPU. Operate winch control lever in inhaul/outhaul. Have NLW/CHW operator press the emergency stop button. Verify control lever does not operate winch in inhaul/outhaul mode. Reset winch.	EMERGENCY STOP OPERATED FOR NLW/CAW. E-STOPS OPERATED CORRECTLY	

EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET

For use of this form, see DA PAM 750-8; the proponent agency is DCS, G-4.

1. ORGANIZATION A-3RD ADA (JLENS)				2. NOMENCLATURE AND MODEL MOBILE MOORING STATION (MMS)			
3. REGISTRATION/SERIAL/NSN 0002	4a. MILES	b. HOURS	c. ROUNDS FIRED	d. HOT STARTS	5. DATE	6. TYPE INSPECTION Monthly	

7. APPLICABLE REFERENCE			
TM NUMBER JLENS-A-M0-60-0000-00A-300A-A	TM DATE 20141205	TM NUMBER JLENS-A-M0-60-0001-00A-300A-A	TM DATE 20141205

<p>COLUMN a - Enter TM item number.</p> <p>COLUMN b - Enter the applicable condition status symbol.</p> <p>COLUMN c - Enter deficiencies and shortcomings.</p>	<p>COLUMN d - Show corrective action for deficiency or shortcoming listed in Column c.</p> <p>COLUMN e - Individual ascertaining completed corrective action initial in this column.</p>
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STATUS SYMBOLS

<p>"X" - Indicates a deficiency in the equipment that places it in an inoperable status.</p> <p>CIRCLED "X" - Indicates a deficiency, however, the equipment may be operated under specific limitations as directed by higher authority or as prescribed locally, until corrective action can be accomplished.</p> <p>HORIZONTAL DASH "-" - Indicates that a required inspection, component replacement, maintenance operation check, or test flight is due but has not been accomplished, or an overdue MWO has not been accomplished.</p>	<p>DIAGONAL "/" - Indicates a material defect other than a deficiency which must be corrected to increase efficiency or to make the item completely serviceable.</p> <p>LAST NAME INITIAL IN BLACK, BLUE-BLACK INK, OR PENCIL - Indicates that a completely satisfactory condition exists.</p> <p>FOR AIRCRAFT - Status symbols will be recorded in red.</p>
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ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IN ACCORDANCE WITH DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HEREON.

8a. SIGNATURE (Person performing inspection) SSC (b)(6) 050175	8b. TIME 1919	9a. SIGNATURE (Maintenance Supervisor) SPC (b)(6) 715	9b. TIME 2314Z	10. MANHOURS REQUIRED
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TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
1		INTERIOR: inspect the interior of the machinery enclosure for cleanliness and remove any FOD	Free of FOD	(b)(6)
2		Inspect the LTA/LC plumbing and all hydraulic lines, bulkhead fittings, and filters for leaks or damage	no damage	
3		Check that all fire extinguishers are fully charged	fully charged	
4		Inspect the ecu vents and filters for cleanliness, replace filters if necessary	inspected	
6		Check the interior for damaged, peeling paint, damaged insulation, corrosion, and water leaks	no damage	
7		EXTERIOR: inspect the 60 hz transformer and electrical cable for proper connection. Check for wear or damage to the electrical cable insulation	checked	
9		Inspect the outriggers, cribbing, and all hardware for security and corrosion, ensure all cribbing are seated properly /cannot be moved.	checked	
10		Check the tie downs and anchors on the outriggers for security, inspect for loose or missing hardware, corrosion control and care paint for surface condition, clean as required	checked	
11		Check the LTA/LC and ECU air intakes for cleanliness. Clean and remove FOD, mud or dust	checked	
		inspect the LTA/LC sight glasses to verify coolant levels are at proper operating levels. Check the sealant integrity		

TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
40		BOOM ASSEMBLY: Inspect working surfaces for cleanliness	inspected	(b)(6)
41		Inspect all boom work platforms, support struts, and hardware for damage, corrosion, and missing hardware. Ensure all struts are properly pinned and secure	inspected	
42		Check flying sheave springs for damaged and functionality.	checked	(b)(6)
43		Inspect security of safety rails, 'J' rails, and work platform	inspected	
44		FLYING SHEAVE: Inspect for freedom of movement		
46		CLOSE HAUL WINCHES: inspect for hydraulic leaks	inspected	
47		Inspect CHW sheaves for freedom of movement	inspected	
48		Inspect spreader beam assemblies for security and corrosion	checked	
50		Inspect all placards for legibility	checked	
51		CHW HPU: Inspect hydraulic fluid through sight glass, fill as necessary	inspected	
52		Inspect for hydraulic leaks, loose or missing hardware	no leaks	
53		Inspect seals for wear, tearing and dry-rot	no wear/tear	
54		MOORING TOWER and SAFETY RAILS: inspect railings, safety chains, and the ladder for loose or missing hardware, corrosion or damage.	inspected	
121		AEROSTAT ASSEMBLY: Forward and aft close haul lines inspection		(b)(6)
127		MMS INTERIOR: Inspect lighting control panel for functionality.	functional	
128		Inspect machinery environmental control unit control panel	MECU CP functional	
129		CLOSE HAUL WINCHES: Move centering springs back and forth to ensure springs work properly. Inspect centering springs for damage.	FMC	
130		MMS EXTERIOR: Inspect electrical cable insulation along length from 60hz pedestal transformer to machinery enclosure for wear and damage.	No wear/damage	
133		MMS INTERIOR: Inspect interior (siding, doors, louvers, etc.) for damage, peeling paint, corrosion, and water leaks	inspected	
134		Visually inspect tether storage drum ECU cooling fan outlet for cleanliness and indications of damage.	checked	(b)(6)
135		Visually inspect capstan ECU cooling fan outlet for cleanliness and indications of damage.	checked	
138		MMS EXTERIOR: Inspect main access door latches and access ladder for damage and deterioration Lubricate door hinges and latches with oil	checked	

TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
140		Check enclosure exterior for damage, peeling paint, and corrosion. repair as required.	Checked	(b)(6)
141		Inspect sealant at fitting joints and fastener heads. ensure that hardware is complete and secure.	Inspected	
144		Inspect all railing mounting brackets. Ensure that all hardware is present and secure.	inspected	
145		Inspect hydraulic hoses and filters for leaks. Clean as required.	inspected	
146		Observe sight glass on reservoir inside of boom HPU enclosure and annotate fluid level.	Checked	
147		Observe sight glass on reservoir inside tower HPU and annotate fluid level.	Checked	
148		Inspect boom HPU filter, any accessible hoses, and floor of HPU enclosure for fluid leaks.	Checked	
149		Inspect tower HPU filter, any accessible hoses, and floor of HPU enclosure for fluid leaks.	Checked	
154		TETHER WINCH HPU: Perform a spectroanalysis check by draining 4 to 8 fluid ounces of hydraulic fluid into a clean container that can be sealed. submit fluid sample for analysis if sample is contaminated.		
		contact contractor logistics support (cls)		
155		Exercise eight valve handles on tether HPU change over panel. Rotate handles 1 through 5 to drive 2 position. Starting with handle 1. Exercise handle a minimum of three times returning handle to normal position when exercise has been completed	exercised	(b)(6)
156		Exercise three red valve handles on tether HPU change over panel a minimum of three times returning handles to normal position when exercise has been completed	exercised	(b)(6)
157		Inspect all hydraulic hoses and lines for chafing, wear, kinking or dry rot.	inspected	
160		CAPSTAN: Inspect hydraulic motor mounting hardware for security and corrosion.	inspected	
161		Inspect lower and upper drum bearing mounts for security and corrosion.	inspected	
162		TETHER: Inspect boom assembly tether from brush seal to flying sheave for nicks.	checked	
168		WOCC: Replace ECU filter if filter is damaged or cannot be cleaned sufficiently to allow air flow.	inspected	
169		TOWER HPU: perform a spectroanalysis check by draining 4 to 8 fluid ounces of hydraulic fluid into a clean container that can be sealed. Submit fluid sample for analysis.		
171		BOOM ASSEMBLY: Inspect AWP mounting hardware for corrosion, damage, or missing hardware.	inspected	
172		Inspect tag lines for wear and chafing.	checked	
173		AWP: Perform function checks and routine inspections and lubrication IAW TM	INSPECTED AND LUBRICATED	
178		LTA/LC and MECU: Inspect for coolant fluid leaks. tighten tubing and piping as required leading to LTA/LC, MECU #1 and MECU #2	inspected	

TM ITEM NO. <i>a</i>	STATUS <i>b</i>	DEFICIENCIES AND SHORTCOMINGS <i>c</i>	CORRECTIVE ACTION <i>d</i>	INITIAL WHEN CORRECTED <i>e</i>	
179		Verify that LTA/LC and MECU mounting hardware is secure.	verified hardware secure	(b)(6)	
180		Visually inspect plumbing for leaks, chafing, wear, or kinking in hoses and piping.	hoses serviceable		
181		Inspect and clean condenser air inlet screen.	inspected		
182		Inspect two MECU air filters ensure one filter in each ECU.	inspected		
183		Inspect all mounting hardware for security, corrosion, and weldment cracks.	inspected		
184		Clean and lubricate automatic lock device on safety belt slide.	lock device lubricated		
189		CLOSE HAUL WINCH HPU: Visually inspect for hydraulic leaks.	inspected		
190		Visually inspect for loose or missing hardware.	inspected		
191		Inspect seals tearing, and dry-rot.	inspected		
192		TOWER SUPPORT STRUTS: inspect struts for security, corrosion, and completeness of hardware.	inspected		
193		GROUNDING SYSTEM: inspect 60 hz pedestal transformer and 400 hz junction grounding rods for security.	grounding rods secure		

TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
70		400 HZ CONTROL PANEL: Inspect	inspected	(b)(6)
72		AC OUTLETS: Inspect	inspected	
73		BOOM AERIAL LIFT POWER AND COMMUNICATIONS CABLES: Inspect	inspected	
74		BOOM UMBILICAL CABLES, FIBER OPTIC AND 400 HZ (2): Inspect	inspected	
75		EMERGENCY STOP: Verify operation	OPERATION VERIFIED	
76		HIGH VOLTAGE JUNCTION BOX: Inspect for operability	inspected	
77		HIGH VOLTAGE SLIP RING: Inspect for operability	inspected	
79		HPU CONTROLLERS (4): Verify operation	OPERATION VERIFIED	
80		JUNCTION BOXES: Inspect for operability	inspected	
81		MOTOR CONTROL CENTER (MCC): Inspect for operability	inspected	
90		AEROSTAT ASSEMBLY: Confluence/mooring line inspection		
103		Inspect main close haul lines		
152		FLEET ANGLE SENSOR: Inspect for operability	inspected	(b)(6)
158		CAPSTAN: Inspect motor mounting hardware for security and corrosion.	inspected	
163		TETHER STORAGE DRUM: Inspect drum pillow block bearings for indications of bearing damage.	inspected	
164		A light coating of grease should exist on journal without any indications of metal damage on journal.	inspected	
		Inspect bearing pedestal on side of fiber optic rotary joint (FORJ) for weld cracks and material distortion.		
170		TOWER HPU: Inspect and lubricate drum assembly bearing with lithium grease	LUBRICATED	(b)(6)
185		NOSE LATCH: Inspect for loose or missing hardware. (Must be done while elevated)		
186		Lubricate internal gears with open gear lubricant. (Must be done while elevated)		
187		Lubricate 18 zerk fittings with lithium grease located on enclosure turntable bearing (Must be done while elevated)	LUBRICATED	(b)(6)

TM ITEM NO. a	STATUS b	DEFICIENCIES AND SHORTCOMINGS c	CORRECTIVE ACTION d	INITIAL WHEN CORRECTED e
12		Inspect the integrity of the lta/lc and ecu mounting brackets: inspect the locking hardware on ecu NBC	checked	
		filters for security and proper sealing. inspect the nbc blower located on boom for security and cleanliness		
13		Inspect the main access door, top hatch, occ door, and all access ladders for damage. ensure the ratchet	no damage, secure	
		straps on the boom end ladder are not loose and hold the ladder securely in place		
14		Check the exterior for damage, peeling paint, corrosion and water leaks. leaks should be repaired	checked	
15		Inspect all safety railings and chains located on the mms enclosure, boom, and any work platforms	checked	
17		Verify that all the lighting stations operate	Verified	
18		AWP: Inspect guide rails for FOD. Perform daily inspection recommended by AWP manufacturer	inspected	
		inspect AWP for side to side freedom of movement		
19		HPU: inspect the hpu reservoirs for leaks and proper fluid levels. add fluid if necessary.	fluid level in spec	
21		CAPSTAN: Inspect for hydraulic lines for leaks, chafing or kinking	no leaks	
24		Inspect the load cell cable for security	secure	
25		Visually inspect the capstan drums mounting hardware for security	inspected	
26		With the HPU's off, exercise capstan emergency: panel change over valves ensuring freedom of	exercised all handles	
		movement. also check that the gauges read "0" and that the break: release pump handle is secure.		
29		TETHER STORAGE DRUM: Inspect for hydraulic leaks	no leaks	
30		Visually inspect level wind for correct alignment . inspect the rollers on fleet angle rocker for damage	inspected	
		and wear. Check that the shoulder screw holding the fleet angle rocker to the level wind is not damaged		
33		WINCH OPERATOR CONTROL CAB: inspect the console for cleanliness: clean all windows and sky	WOCV serviceable	
		dome mirror and if necessary, the telemetry display screens.		
34		Perform function check on control levers and perform lamp test to ensure functionality of control panel lights	checked	
35		Inspect TDS display screens for functionality and damage. Ensure that the screens dimmer switches	fully functional	
		function correctly/that the screens return to full brightness.		
36		NOSE LINE WINCH/HPU: Inspect hydraulic lines for chafing, leaks, or dry rot	checked	
37		Visually inspect winch hydraulic fluid reservoir level using the sight glass on the reservoir	checked	
39		BOOM ASSEMBLY: Visually inspect all hydraulic and LTA/LC hoses and piping for leaks, kinks or	inspected	
		damage		

(b)(6)



DEPARTMENT OF THE ARMY
UNITED STATES ARMY COMBAT READINESS CENTER
FORT RUCKER, ALABAMA 36362-5363

REPLY TO

CSSC-O

23 November 2015

MEMORANDUM FOR Commander [REDACTED] (b)(3)
Aberdeen Proving Grounds, Maryland

SUBJECT: Release of Aerostat site and materials

1. Aerostat, SN 74M002, the associated MMS, all related mission equipment, and personal items associated with CRC Case # 201510281147X74M002 is released to the Commander, [REDACTED] (b)(3) for final disposition pending release by the collateral officer.

2. The United States Combat Readiness Center point of contact is CW4 [REDACTED] (b)(6) at DSN [REDACTED] (b)(6) Com [REDACTED] (b)(6) and email [REDACTED] (b)(6)

[REDACTED] (b)(6)

MAJ, AV
Board President