



QUANTA AVIATION

# Helicopter JHA / Work Procedure

HAVERFIELD



EMERGENCY # TOWN LOCATION: AED LOCATION HOSPITAL ADDRESS HOSPITAL COORDINATES	[REDACTED] Bel Air Maryland Fuel Truck 300 Upper Chesapeake Dr	CROSS STREET
	DEGREES DECIMAL 39.5184	DEGREES DECIMAL -76.3856
EMS RALLY POINT & ESCORT	[REDACTED]	
LZ CLOSEST LOCATION WORK SITE LZ GPS	[REDACTED]	CROSS STREET Rylesville BMD
	DEGREES DECIMAL 39.6963193	DEGREES DECIMAL -76.3858601

DATE: 4-25-20 OP-U JOB #: [REDACTED] AVIATION JOB #:

JOB DESCRIPTION: Unclip top Phase & Transfer to Middle Phase (Angles)

LINE NAME & VOLTAGE: Coraceton - Bugley 230KV ENERGIZED  NOT ENERGIZED

STRUCTURE #'S / LOCATION: 2986 & 2984

Hazardous Energy Controls	Energy Control Validation
LINE NAME AND VOLTAGE <input type="checkbox"/> RECLOSING BLOCKED <input checked="" type="checkbox"/> CLEARANCE ORDER <input type="checkbox"/> RELEASED	<u>Circuit 2305</u> <u>4 / 17 / 20</u> at <u>06:53</u> am/pm. BY: [REDACTED] ORDER ID # [REDACTED] Contact # [REDACTED] RELEASED: ___ / ___ / ___ at ___ am/pm. TO: ___
LINE NAME AND VOLTAGE <input type="checkbox"/> RECLOSING BLOCKED <input type="checkbox"/> CLEARANCE ORDER <input type="checkbox"/> RELEASED	___ / ___ / ___ at ___ am/pm. BY: ___ ORDER ID # ___ Contact # ___ RELEASED: ___ / ___ / ___ at ___ am/pm. TO: ___
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<b>LINE NAME AND VOLTAGE</b> <input type="checkbox"/> RECLOSING BLOCKED <input type="checkbox"/> CLEARANCE ORDER <input type="checkbox"/> RELEASED	_____
	_____/_____/_____ at _____ am/pm. BY: _____
	ORDER ID # _____ Contact # _____
	RELEASED: ____/____/_____ at _____ am/pm. TO: _____

PHASE TO GROUND CLEARANCE: 6' 7" PHASE TO PHASE CLEARANCE: 10' 2"

### Installed Grounds

Structure Location/ Tag Number (if applicable)	Date & Time		Date & Time	
	Installed	Removed	Master	Personal
2991	4-20		X	
2974	4-19		X	
2961	4-19		X	

### Review Policies and Precautions

#### PPE Required

- Hot Suit
- FR Clothes
- Flight Suit
- Petzl
- Hard Hat w/ Chin Strap

- Flight Helmet
- Safety Glasses
- Gloves
- Foot Protection
- Ear Protection

- High Vis
- gloves
- sleeves
- \_\_\_\_\_
- \_\_\_\_\_

#### Equipment Required

- Helo \_\_\_\_\_
- HRC Line \_\_\_\_\_
- Belly band \_\_\_\_\_
- Bucket \_\_\_\_\_
- Cable \_\_\_\_\_

- Crane \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

#### Tools Required

- Ladders \_\_\_\_\_
- Hoist \_\_\_\_\_
- Slings \_\_\_\_\_
- Blocks \_\_\_\_\_
- grounds \_\_\_\_\_

- Snotgun stick \_\_\_\_\_
- Safety for wire \_\_\_\_\_
- Tool Bag \_\_\_\_\_
- Misc Hand tools \_\_\_\_\_
- \_\_\_\_\_



# Helicopter JHA / Work Procedure



## Helicopter Record Sheet

Helicopter Registration	9159E/369D	Power Check:	Degrees Cool (if reading is Hot, work shall stop)		
Helicopter Type			28 + 28		
Pilot Preflight/ Aircraft Release:			Inspected		Inspected
Load Security/ Evaluation:	<input checked="" type="checkbox"/> COMPLETE	Handles / Straps	<input type="checkbox"/>	Platform Connections	<input type="checkbox"/>
Task/ Risk reviewed:	<input checked="" type="checkbox"/> COMPLETE	Bonding Wand	<input type="checkbox"/>	Platform Bonds	<input type="checkbox"/>
Long Lines Inspected	Length / Serial #	Side pull / pin	<input type="checkbox"/>	Cargo Hook	<input checked="" type="checkbox"/>
Inspected By:		Fly Ropes	<input type="checkbox"/>	Com Cord	<input type="checkbox"/>
HEC <input checked="" type="checkbox"/>	[REDACTED]	PSD / Bridle	<input checked="" type="checkbox"/>	Blue Tooth	<input type="checkbox"/>
HEC <input checked="" type="checkbox"/>		Shackles / Rings	<input checked="" type="checkbox"/>	Grapple Hook	<input type="checkbox"/>
<input type="checkbox"/>	/	Needle	<input type="checkbox"/>	Reverse Grapple	<input type="checkbox"/>

### Additional Helicopter Check off

Mechanic has briefed PIC on previous day maintenance completed or maintenance due  
 PIC has briefed mechanic on operational plans  
 Flight dispatch notification complete (phone/e-mail)       Work area reconnaissance completed (Pilot and Foreman)

### Fuel Check Off and Limitations

Fuel Truck Sump Complete and Inspected       Helicopter Fuel Sample Complete and Inspected  
 Fuel Checks Completed by: [REDACTED]

**Helicopter Fuel Minimum (Flight Following):**  
 MD500: 100 lbs. Landing Minimum       UH-1 HUEY: 300 lbs. Landing Minimum  
 K-MAX: 300 lbs. Landing Minimum       BK 117: 265 lbs. Landing Minimum  
 MD500: Wire / Rope Pull and Wreck Out Operations:       UH-60 Black Hawk: 425 lbs. Landing Minimum  
 Maximum 1hr (45 min F / FF) flight time with max fuel load

### External Helicopter Awareness / Emergency Brief

Helicopter rotor awareness       Head Protection with 3-point chinstrap  
 LZ Housekeeping standards (Secure all loose items)       Ear / Eye Protection  
 Helicopter Emergency / Accident Response       No Smoking within 100' of helicopter or fuel truck



## Helicopter JHA / Work Procedure



**Job Procedure:** Write a detailed job plan. Include any item that can help clarify procedures to supervisor and crew. Indicate specifics such as transfer points on the structure. Utilize additional Paper if necessary (located at end of JHA).

\*Re-brief required any time work scope changes!

Crew will Inspect Hec Lines and Documents.

Install Hec Kit on Aircraft and Make sure it is Rigged Properly.

Crew will get Ladders + Rigging out and Inspect.

Pilot will Pick up 1 Lineman + Ladder + Install on the

Tip of the middle phase Arm. Lineman will Install

Grounds on the Middle + Top phase. Once grounded Pilot

will Pick up another Ladder and two more Lineman + Land

on the Top Phase. Pilot will Pick up Middle Phase Ladder

+ Land on the Top Phase Tip. Middle Ladder will Pick up

and Break Load on wire. Tip Ladder will Hook Hoist

to wire. Middle Ladder will let wire off into the Tip

Ladders Hoist. Tip Ladder will let wire down Below

The Middle Phase into a Slings. Top Ladder will Lower

down to Middle Phase. Install Rigging and Pick the

Middle Phase up, unclip, and Move towards the tip

of the Arm and Let off into a Slings. Pilot will

Pick Middle Ladder up and Fly to the ground. Tip Ladder

will Move down to the Middle arm and Remove Grounds.

Pilot will Pick Tip Ladder up and Fly to the middle

arm of the Next Tower to Repeat process.

On the inside Angle the crane will Assist in Pulling it around the Arm.



# Helicopter JHA / Work Procedure



## Wire / Rope Pull Section

### Communication Method (2-Way radio) (Mechanical communication):

- Handheld Radios     Truck Radio     Other: \_\_\_\_\_
- Radio Channel Utilized: # 4     Keep channels clear: Essential Personnel Only
- Hand / Arm / Head signals: \_\_\_\_\_

### Communication Check Complete:

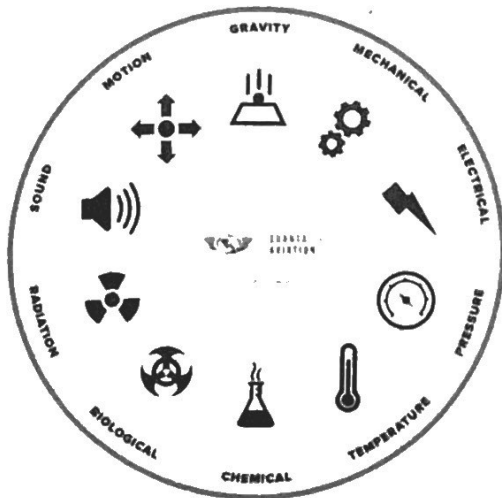
- Job LZ / Work Truck to Helicopter
- Helicopter to Puller
- Job LZ / Work Truck to Puller
- Helicopter Wire / Rope Pull Terminology Brief Complete:

- **Hold (Stop) The Pull:** Cease Pulling/moving the rope.
- **Slowing to a Stop:** Helicopter slowing down in preparation to thread a stringing block with the pulling rope / sockline
- **Stopped:** Helicopter has stopped pulling the rope / sockline in a lateral direction.
- **Moving:** Pulling rope / sockline is inside the stringing block and pilot is ready to move the rope / sockline again heading toward the next structure.
- **Less / More Brakes:** Pilot requesting less / more brake from the rope reel/brake operator.
- **Take it Slow or Slow it Down:** Brake operator request pilot not to pull the rope as hard or as fast.
- **Rope / Sock line Caught Off:** Sock line is attached to its catch off point and the grip is holding properly. (Identify pre-form size, ensure pre-form is new, are grips being used, and identify location of catch off point)
- **Helicopter Clear:** Helicopter has been disconnected from the sock line/lead line and is clear of the Right of Way (ROW) and headed to LZ for Fuel.

### Document Hazards and Mitigations

Remember think "STKY" (Stuff That Kills You)

Use the Power Wheel to Trigger your Mind to the On-site Hazards



**ENERGY WHEEL**



# Helicopter JHA / Work Procedure



## Site and Work-specific Hazards

### STKY Hazards:

1. Hot crossings during work
2. Limits of Approach (Physical/Helicopter)
3. Limits of Approach (Electrical)
4. Induction
5. Longline contact with Structure/Wire
6. Rigging failure/Dropped loads
7. Rotor blades/Exhaust exposure
8. Communication breakdown
9. Working at heights
10. LZ conditions
11. Non-workers/pedestrians
12. Weather changes
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_

### Hazards Mitigation:

- Guarded.  One shot.  Covered.
- 5ft
- Maintain LOA
- Use Personal grounds
- Avoid Contact
- Check rigging each use / Safety's
- Don't go behind Skids
- 3 way physical, Ask Questions
- 100% Fall Protection
- House Keeping
- Keep out of work zone, Tailboard
- Radar, eye on the sky
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Other Hazards:

1. Support Equipment Movement
2. Pinch Points
3. Slips, Trips, Falls
4. Tool / PPE unknown condition
5. Drop Zone / Falling objects
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_

- Use Spotter while Bucking
- Identify pinch points, stay out of Bite
- 3 points of contact, watch footing on Mats
- Inspect all tooling / PPE
- Stay out, Communicate
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



# Helicopter JHA / Work Procedure



<b>WEIGHTS AND FORCES:</b>	<b>DRAWING SKETCHES OF WORK AS NEEDED:</b>
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### Member Responsibilities, and Understanding of Work Plan

Name	Responsibility	Signature
	Pilot	
	<del>Mechanic</del> Pilot	
	Foreman	

I verify employees have been instructed on specific hazards associated with the performance of this task. All employees have indicated an understanding of their roles/responsibilities and work procedures that will be utilized and have appropriate PPE for the tasks. I agree to STOP this operation should any event or situation arise that places any employee in harm's way.

Supervisor - Print Name

[Redacted]

Supervisor's Signature

[Redacted]

### Quanta Aviation Prior Authorizations and Exemptions (Haverfield POC's Contact Only)

Haverfield Aviation Safety: [Redacted]	Safety Director: [Redacted]
Quanta Aviation Safety: [Redacted]	