

GUARDIAN

HELICOPTERS, INC.

HELICOPTER LIFT OPERATIONS SAFETY BRIEF CHECKLIST

PRIOR TO BEGINNING ANY HELICOPTER OPERATION A THOROUGH SAFETY BRIEF WILL BE CONDUCTED UTILIZING THE FOLLOW CHECKLIST: *Point Reyes*

- ☐ SAFETY BRIEF SIGN IN *7-23-2020*
- ☐ GHI CREW INTRODUCTION *(2) 55CL2 2000CBS*
- ☐ IS A TRANSLATOR REQUIRED *Non-CAP*
- ☐ WORK STOP AUTHORITY *20-01410*
- ☐ DESIGNATE A 911 CALLER
- ☐ IDENTIFY CLOSEST EMERGENCY MEDICAL SERVICES
- ☐ CREW FATIGUE AND HYDRATION
- ☐ HELICOPTER LIFT LIMITATIONS
- ☐ HAZMAT WILL OR WILL NOT BE CARRIED ON THE HOOK
- ☐ NON GHI EMPLOYEES WILL NOT APPROACH HELICOPTER WITH ROTORS ENGAGED
- ☐ HELICOPTER HAZARD AREA (TAIL/MAIN ROTOR)
- ☐ EFFECT OF ROTOR DOWN WASH ON LOAD

DUST MASK: BURN AREA, DUST, POLLEN EXPOSURE

- ☐ HELICOPTER DOOR REMOVAL AND FIRE EXTINGUISHER LOCATION
- ☐ PPE REQUIREMENTS (GLOVES, EYE PROTECTION, HARD HAT WITH CHIN STRAP)
- ☐ PILOT/GROUND CREW COMMUNICATIONS/ LOST COMMUNICATIONS

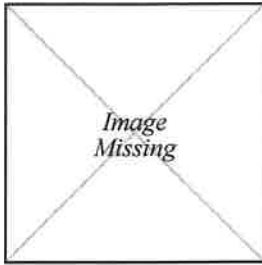
PROCEDURES

- ☐ POTENTIAL STATIC CHARGE CAUSED BY HELICOPTER
- ☐ SITE PLAN /FLIGHT PATH
- ☐ FALL, PINCH, CRUSH DANGER POINTS
- ☐ RIGGING OPERATIONS CONNECTING AND DISCONNECTING CRANE HOOK AND SPREADER BAR HOOK
- ☐ PROPER SECURING OF EQUIPMENT / TOOLS IN SUPER SACK AND ON LONG LINE
- ☐ STREET CLOSURE / EVACUATION USE DIAGRAM TO ENSURE ALL HOMES ARE CLEAR
- ☐ NO CELL PHONES OR CAMERA USED BY GROUND CREW

Non-compliance with established procedures may result in your removal from the mission

AIRCRAFT	ENVIRONMENT	EXTERNAL LOAD
☐ Approach and departure ☐ Main/tail rotor hazards ☐ Safe cargo loading/unloading ☐ Loose articles: - Aircraft & LZ ☐ Hearing protection ☐ Door/seatbelt operation ☐ Headset/helmet/intercom ☐ Air-sickness ☐ In-flight emergencies Establish who will call 911 ☐ Location of: o First aid/survival kit o Fire extinguisher o Fuel and battery shut off procedure o Radios, ELT, SAT Phone ☐ Fueling Operations: - Duties & Safety Issues	☐ Weather conditions ☐ Wind direction ☐ Fuel ☐ Gross weight ☐ Terrain ☐ Landing zone hazards ☐ Density altitude ☐ Noise abatement ☐ Congested area plan ☐ Traffic/crowd control CRM ☐ COMMUNICATION IS CRITICAL ☐ Standardized language ☐ "Code Red" phrases ☐ Sterile cockpit ☐ Flight following/radio procedures ☐ Possible tasks for crew, e.g., switch/tune radios, maps ☐ Hazard awareness, e.g., birds, other hazards ☐ STOP work policy ☐ Re-brief in case scope changes ☐ IMSAFE Acronym Pilot fatigue mitigation must be briefed prior to work	☐ Ground crew PPE ☐ Long Line & Rigging Equipment Inspection ☐ Communication: Use of headset for lineman communicating with pilot ☐ Head/Hand Signals ☐ Pole set procedures: Brief how pole will be secured: 1) Taglines 2) Pikes 3) fill dirt ☐ Steps on pole ☐ Remote hook operations ☐ Ground crew hook up procedures ☐ Static discharge ☐ Emergency flyaway procedures ☐ Long line clearance (6'- 25'- 150% rule) ☐ No person under load ☐ Ground crew safety zone ☐ Pole removal with potential snag issues must be discussed ☐ Nylon straps (wood vs. glass) ☐ Load ratings (7:1 minimum) ☐ Dry Run/Play by play pole set Procedures ☐ Induced Voltage from: - Adjacent circuits, Underbuild, Parallel circuits etc. ☐ In case of Non-Company ground crew: Rigging procedures must be briefed ☐ No cell phone/camera use during external loads ☐ Essential crew only

20-01410 Request Summary



Requestor	Amber L Robinson	Request Date	07/17/2020
LAN ID	ALRI	Work Type	Lift Work
Phone	(707) 449-5832	Lift Work Type	Cargo
Cell	(707) 761-6047	Emergency Work	No
LOB	Electric GC Distribution	For Contractor	Yes
Vendor	Guardian Helicopters		ALVAH
			CONTRACTORS

Work Dates

07/23/2020 UH-1H

Scope of Work

MARIN COUNTY
OLEMA 1101
CAP- NIL
DISPATCH NOTIFICATIONS- NIL

USFS/NATIONAL PARK TERRITORY- NIL
APPROVAL RECEIVED- NIL

THIRD PARTY CONTACTS-
REQUESTOR- SLOAN HOLLAND: 415.840.4823
FOREMAN- EDWARD GARRERA (E3G7)

SCOPE- Fly in Manta Ray anchor machine, fly in rock bags, fly in tools and equipment, fly in new pole, fly out old pole at location 1. Fly out abandoned pole and small transformer at location 2.
POLES ARE 50' CL. 2 FULLY FRAMED AT 2,000LBS.

LZ/WORK LOCATION INFORMATION-
LZ- OK, NO OBSTRUCTIONS.
LZ DIAMETER VERIFIED FOR TYPE 2 AIRCRAFT- FEET DIAMETER
**ROCK BAGS PICKED FROM LOCATION NORTH OF LZ.

WL- OK, NOTE TREES WITHIN CLOSE PROXIMITY.

Daily Information

07/23/2020

Asset Category: MEDIUM

Asset Type: UH-1H

Locations

08:00 - LZ	LZ	38 07.76'N 122 54.52'W	<no headquarters>	<no county>	345 ft
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20-01410 Request Summary

--- - Work Location

ROCK BAG PICK LOCATION 38 07.93'N <no headquarters> <no county> 366 ft
122 54.57'W

--- - Work Location

OLEMA 1101 38 07.89'N Line #: 102293776 <no headquarters> <no county> 300 ft
122 54.27'W

--- - Work Location

OLEMA 1101 38 07.83'N <no headquarters> <no county> 185 ft
122 54.11'W

Est. Use Hours	8.00	Vendor	Guardian Helicopters
Contract	---	Over Water	No
Fuel Truck	No	Cargo Weight	2000.0 lbs
Special Equipment	---	Billing Number	35166275-5300 100%
Comments	---	Req. Notifications	TOMALES BAY STATE PARK APPROVAL RECEIVED **CONTRACTOR WORKING WITH THE PARK

Talk About #	SEE FREQUENCY SHEET	Talk Group	SEE FREQUENCY SHEET	Talk Radio #	SEE FREQUENCY SHEET
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20-01410 - July 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23 08:00 -16:00 UH-1H LZ 38 07.76'N 122 54.52'W	24	25
26	27	28	29	30	31	1
3	4	5	6	7	8	9



SECTION 7

Part 135 GH 4A Part 133 GH 4L
NON Congested Area Plan

Operator: Guardian Helicopters, Inc
67 D STREET
FILLMORE , CA 93015
Phone (818) 442-9904
FAX (818) 442-9901

PROJECT: PG&E POLE AND CARGO WORK ORDER #: 20-01410
ADDRESS: MARSHALL BEACH RD : SEAHAVEN CA
LZ STAGING AREA LATITUDE 38° 7'45.17"N LONGITUDE 122°54'30.64"W ELEVATION 300 FT
ROCK BAG PICK UP LATITUDE 38° 7'55.80"N LONGITUDE 122°54'34.20"W
102293776 LATITUDE 38° 7'53.43"N LONGITUDE 122°54'16.08"W 50 C 2 2000 LBS
STRUCTURE LATITUDE 38° 7'49.80"N LONGITUDE 122°54'6.60"W

CONTRACTOR'S NAME: SLOAN HOLLAND PHONE#: 415-840-4823
CONTRACTOR'S NAME: EDWARD GARRERA PHONE#: _____

PILOT'S NAME(S): 1. JOHN OLSON CERT#: 2769166
2. BUCKEY MACKAY CERT#: 2778051
3. MICHAEL KLINK CERT#: 3018828
4. IAN GOODALE CERT#: 3741973
5. ROSS GOULET CERT#: 339677
6. CHRIS CURRIER CERT#: 3093383

TYPE OF AIRCRAFT:

BELL UH-1H N#: N711GH A/C CATEGORY: RESTRICTED
BELL UH-1H N#: N777GH A/C CATEGORY: RESTRICTED
BELL 407 N#: N407GH A/C CATEGORY: STANDARD
BELL 407 N#: N447GH A/C CATEGORY: STANDARD
BELL 205A1 N#: N216GH A/C CATEGORY: STANDARD
AS350 B2 N#: N498PT A/C CATEGORY: STANDARD
AS350 B3 N#: N718GH A/C CATEGORY: STANDARD
AS350 B3 N#: N215GH A/C CATEGORY: STANDARD

TYPE OF ITEM LIFTING: POLE ☐ AERODYNAMIC ☒ NON- AERODYNAMIC

IF SAFETY DICTATES AND OR THE CUSTOMER REQUESTS ADDITIONAL LIFTS THE LIFTS WILL BE CONDUCTED REMAINING WITHIN THE APPROVED TIME PARAMETERS.

TYPE OF LIFTS POLE 50 CL 2 , CARGO AND EQUIPMENT

MAX SINGLE – LIFT WEIGHT: 2000 LBS CLASS OF LOAD: EXTERNAL CL B

NO. OF LIFTS: TBD LONG LINE: _____ (NO) XXX (YES) LESS THEN 200 FT (LENGTH)

OPERATIONAL ALTITUDE: < 250 AGL STREET CLOSING: _____ (NO) XX (YES)

DATE AND TIMES OPERATION WILL BEGIN AND TERMINATE:

FLIGHT DATES	TIME BEGIN	TIME END	TODAY'S DATE
7-23-2020	SUNRISE	SUNSET	7-18-2020
AGENCY NAME:	PHONE#:	PERSON NOTIFIED:	DATE:
MARIN COUNTY SHERIFF DEPT.	415-663-1151	DISPATCH	NOTIFY
MARIN COUNTY FIRE DEPT.	415-473-6717	DISPATCH	NOTIFY



NON- Congested Area Plan (Continued)

Evacuation



No Evacuated Structures

☐ Evacuated Structures

Crowd Control



Operator



Contractor

Street Closure



Yes ☐ No



Contractor

☐ Operator

LIST OF BUILDINGS THAT SHALL EITHER BE PARTIALLY OR ENTIRELY UNOCCUPIED PERSONS ALSO HOMES THAT WILL BE NOTIFIED OF ACTIVITY:

BUILDING DESCRIPTION/ADDRESS	REMARKS	METHOD
REMOTE NO EVACUATIONS	VACANT DURING OPS	HAND DELIVER
ALL HOMES WITHIN OPERATING AREA	VACANT DURING OPS	HAND DELIVER
SEE DIAGRAM = V	VACANT DURING OPS	HAND DELIVER

Narrative description of pick-up site, route, delivery site, and plan for ceasing operation if unauthorized persons enter operational area or real hazard occurs.

SITE INSPECTION NOTES

ONLY PERSONNEL ESSENTIAL TO COMPLETING THE JOB SAFELY WILL BE PERMITTED TO PARTICIPATE IN THE EVOLUTION. ONLY PERSONNEL PARTICIPATING IN THE SAFETY BRIEF WILL BE PERMITTED TO BE IN THE AREA OF OPERATIONS. ONLY AUTHORIZED ESSENTIAL PERSONAL WILL BE PERMITTED IN THE IMMEDIATE AREA OF OPERATIONS. IN THE EVENT AN UNAUTHORIZED PERSON ENTERS THE OPERATIONS AREA OR A POTENTIAL HAZARD IS IDENTIFIED THE PILOT WILL HOLD THE AIRCRAFT IN RELATIVE POSITION. THIS WILL BE ACHIEVED WITHOUT OVER FLYING THE GROUND CREW. ALL OPERATIONS WILL BE CEASED UNTIL THE PROBLEM IS RECTIFIED. IN THE EVENT OF AN AIRCRAFT EMERGENCY, THE PILOT WILL RADIO GROUND PERSONNEL AND WILL ATTEMPT TO LAND IN THE EMERGENCY LANDING AREA.

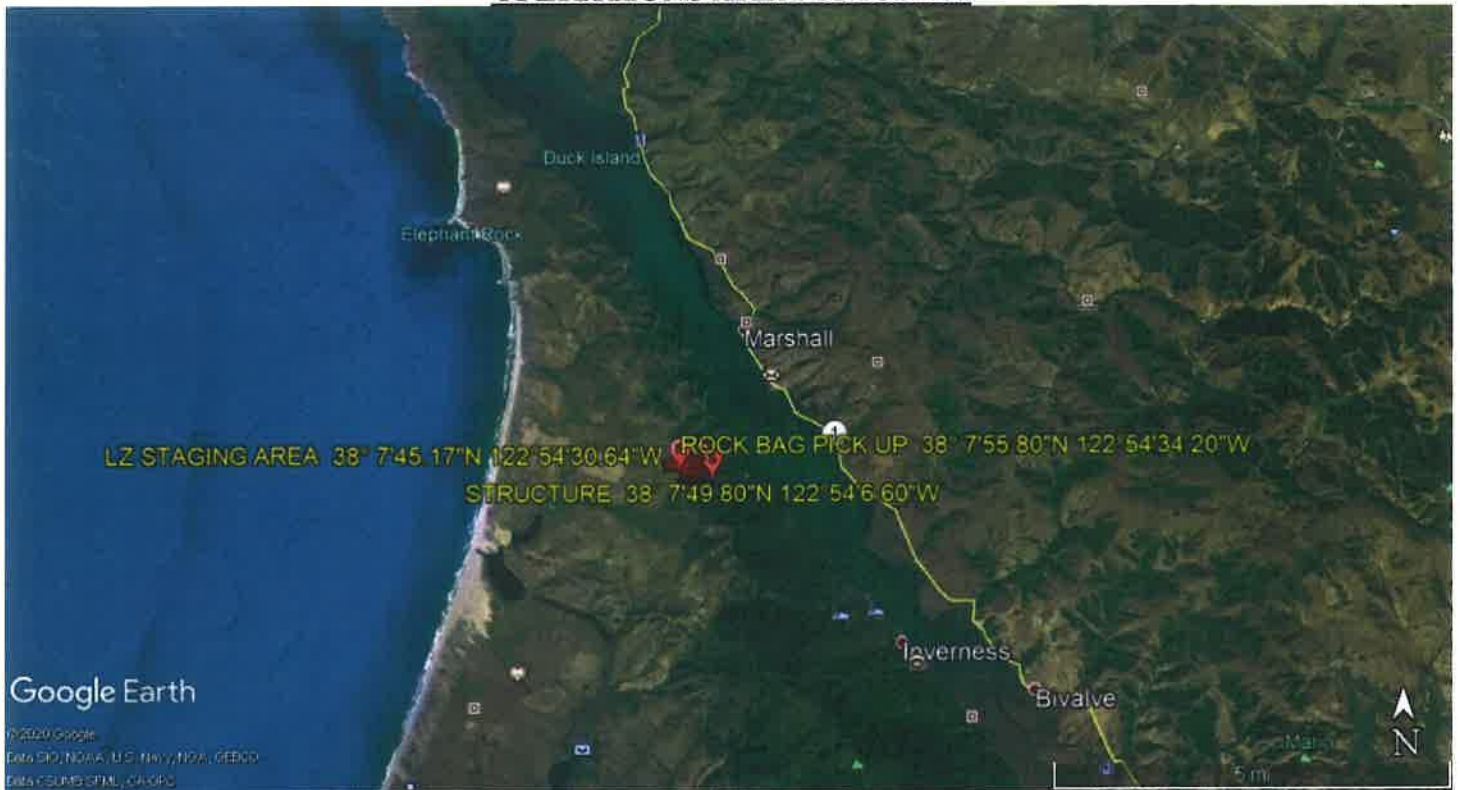
DURING THE LIFT EVOLUTION THE AIRCRAFT AND GROUND CREW WILL ALL BE IN RADIO COMMUNICATIONS. IN THE EVENT OF LOSS COMMUNICATIONS, THE CREW WILL USE STANDARD HAND SIGNALS TO COMMUNICATE WITH THE PILOT. WHEN THE PILOT IS CLEAR HE WILL MOVE THE AIRCRAFT TO A SAFE LOCATION TO ALLOW THE COMMUNICATION PROBLEM TO BE RECTIFIED.

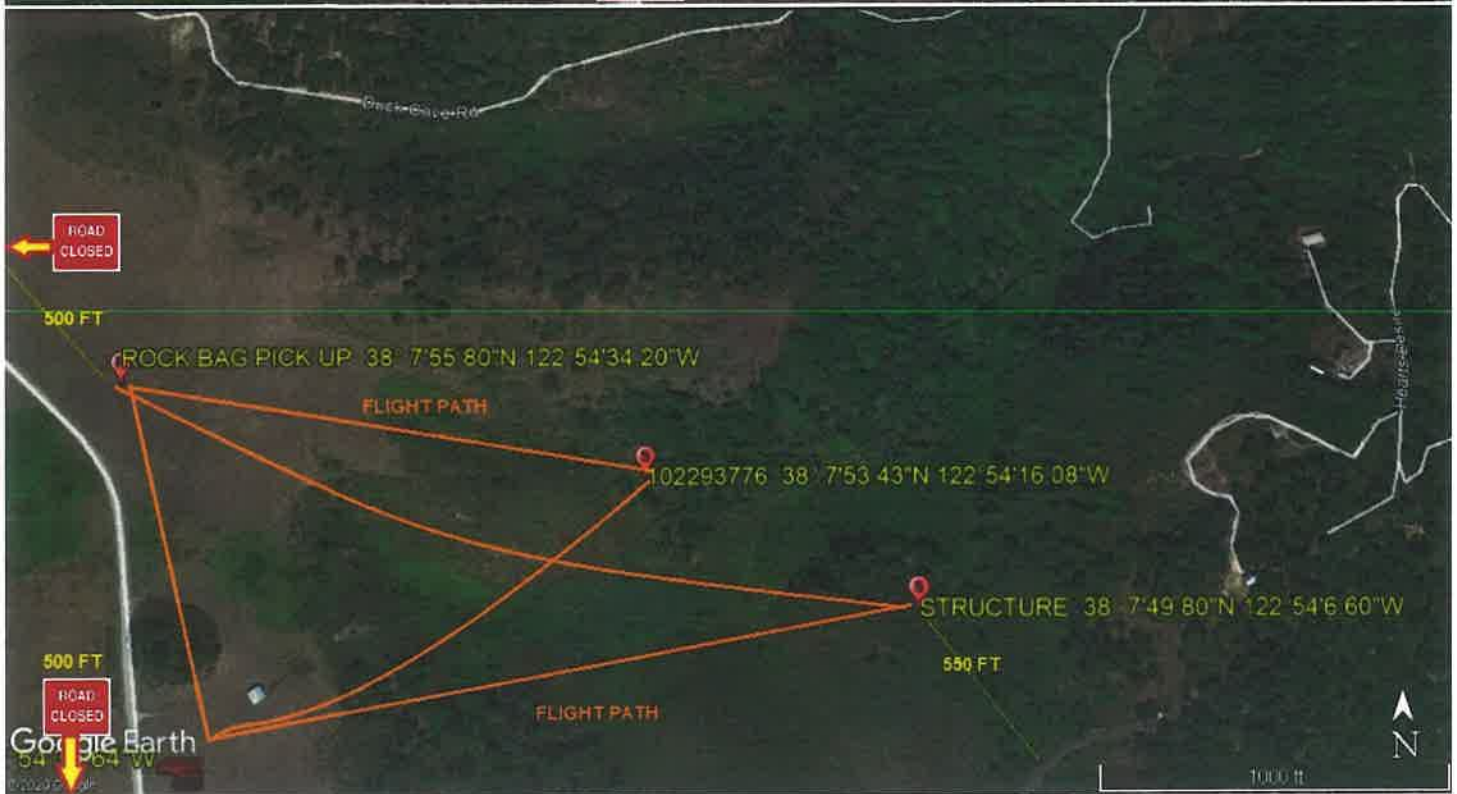
THE OPERATIONS AREA IS WITHIN THE SECURED AREA. ALL ESSENTIAL CREW WITHIN THE OPERATIONS AREA WILL NOT BE INVOLVED IN TAKING PICTURES OR ANY OTHER USE OF CELL PHONES.

A TAILBOARD SAFETY MEETING WILL BE HELD AT THE ASSIGNED AREA PRIOR TO BEGINNING HELICOPTER OPERATIONS

1. HELICOPTER WILL AT THE LANDING ZONE AREA TO CONNECT LONGLINE AND CONDUCT A TAILBOARD SAFETY BRIEF
2. WATER TRUCK REQUIRED
3. PILOT WILL FLY LOW RECON PRIOR TO OPERATIONS TO VERIFY CLEAR FLIGHT PATH TO POLE SITE
4. FUELING WILL ONLY BE CONDUCTED AT THE LZ STAGING AREA
5. EMERGENCY LANDING ZONE IS AT THE STAGING AREA AND ALONG THE FLIGHT PATH
6. NO EVACUATION
7. MARSHALL BEACH RD WILL EXPERIENCE INTERMITTENT CLOSURES
8. **TREE TRIMMING MAYBE REQUIRED PRIOR TO OPERATIONS**

OPERATIONS AREA DIAGRAM





LEGEND

SITE PLAN SYMBOLS: EVACUATION FLIGHT PATH

LANDING AREA = (LZ)	STREET BLOCKED = XXXX	TOP TWO FLOORS = UBT2
ATTACH AREA = (A)	RELEASE AREA = (R)	
FLIGHT PATH = >>>	EMERGENCY LAND = (ELZ)	
UNOCCUPIED BUILDING = (UBA)	UNOCCUPIED BUILDING TOP FLOOR = (UBT1)	

AREA SURVEY CONDUCTED BY : Jeffrey M. Jutner