

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: 6-5-2019

- ☐ SAFETY BRIEF SIGN IN Redondo Beach Harbor
- ☐ GHI CREW INTRODUCTION (1) 2700 LB Truss former
- ☐ IS A TRANSLATOR REQUIRED (1) 2700 LB concrete
- ☐ WORK STOP AUTHORITY Cap Approved
- ☐ DESIGNATE A 911 CALLER TO 1359 857
- ☐ 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

Note: By signing this document you acknowledge you understood all items briefed to you and that you are responsible for insuring all loose items are secured when working under a helicopter.

[illegible]

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 ☐ <u>IMSAFE Acronym</u> 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



SCE Aircraft Operations Flight Request Form

☐ Week 3



Federal Aviation Administration

To: Jeffrey Teubner
Company: Guardian Helicopters, Inc.
Phone: 818-442-9904
Fax: 818-442-9901

Long Beach Flight Standards
5001 Airport Plaza Dr., Suite 100
Long Beach, CA 90815
T (562) 377-5420
F (562) 377-5448

From: Kevin Doty
Title: Aviation Safety Inspector

Facsimile/Email

Date: May, 31, 2019
Pages w/cover:

The Congested Area Plan (CAP) submitted to this office has been approved. This approval is limited to the proposed operations (transformers/concrete pads) located at 181 N. Harbor Dr. Redondo Beach, CA. The approved date is for June 5, 2019, between the hours of 0800 and 1600.

The secure area, defined in the CAP, must be strictly maintained, with only persons and vehicles directly involved with the lift operation in the secured area. Failure to maintain an absolutely secure operational area shall be cause for cancelling the operation.

Particular attention must be paid to clearing any debris in the attachment/release area and securing work materials that may be disturbed by helicopter rotor wash.

This approval is contingent upon any authorizations and/or permits required by the State of California or local authorities. Inspectors from this office may monitor the operation to ensure compliance with the approved plan. If you have any questions concerning this matter, please contact this office at (562) 377-5420.

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Doty".

Kevin Doty
Aviation Safety Inspector



U.S. Department of Transportation



GUARDIAN
HELICOPTERS, INC.

Long Beach FSDO
Approved Date: 5/31/19
[Signature]
Aviation Safety Inspector

SECTION 7

Part 135 GH 4A Part 133 GH 4L

Congested Area Plan
(Submit in duplicate)

Operator: Guardian Helicopters, Inc
16425 Hart Street
Van Nuys, CA 91406
Phone (818) 442-9904
FAX (818) 442-9901

EDISON TRANSFORMER REPLACEMENT WORK ORDER NUMBER: TD1359857

ADDRESS: 181 N HARBOR DR : REDONDO BEACH CA 90277

STAGING AREA LATITUDE 33°50'36.02" LONGITUDE 118°23'35.79"W

TRANSFORMER LATITUDE 33°50'34.59"N LONGITUDE 118°23'31.35"W

CONTRACTOR'S NAME: DISTRIBUTION DISTRICT 44 PHONE#: 310-612-7907

CONTACT AT SITE: CHRIS INGRAM PHONE #: 310-612-7907

PILOT'S NAME(S): 1. JOHN OLSON CERT #: 2769166

2. BUCKEY MACKAY CERT #: 2778051

3. MARTIN RODRIGUEZ CERT #: 3555121

4. MICHAEL KLINK CERT #: 33018828

TYPE OF AIRCRAFT:

BELL UH-1H N# N711GH A/C CATEGORY: RESTRICTED

BELL UH-1H N# N214KK A/C CATEGORY: RESTRICTED

BELL 407 N# N407GH 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: 1 TRASFORMER ↓ 1 TRASFORMER ↑ 1 CONCRETE PAD ↑ 1 CONCRETE PAD ↓
2700 LBS

MAX SINGLE – LIFT WEIGHT: 2700 LBS CLASS OF LOAD: EXTERNAL CL B

NO. OF LIFTS: 4 LONG LINE: (NO) XXX (YES) 100 FT + 10 FT RIGGING = 110 FT
(LENGTH) WE WILL MAINTAIN A MINIMUM OF THAT SUM AWAY FROM EDGE OF

OPERATING AREA

OPERATIONAL ALTITUDE: < 50 STREET CLOSING: (NO) XXX (YES)

DATE AND TIMES OPERATION WILL BEGIN AND TERMINATE:

FLIGHT DATES	TIME BEGIN	TIME END	TODAY'S DATE
6-5-2019	0800	1600	5-29-2019
CROWD CONTROL			
OWNER:	XXX	CONTRACTOR:	XXX
OPERATOR:	XXX	SECURITY:	
AGENCY NAME:	PHONE#:	PERSON NOTIFIED:	DATE:
POLICE DEPARTMENT	310-318-0618	PIER SUB STATION	NOTIFIED
FIRE DEPARTMENT	310-318-0663	STATION 3	NOTIFIED
REDONDO HARBOR PATROL	310-318-0618	DISPATCH	NOTIFIED



Long Beach FSDO
 Approved Date: 5/31/19
[Signature]
 Aviation Safety Inspector



**Guardian
HELICOPTERS, INC.**
Congested Area Plan (Continued)
(Submit in duplicate)

Long Beach FSDO
Approved Date: 5/21/19
[Signature]
Aviation Safety Inspector

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.. ALL BUILDINGS IN THE OPERATING AREA WILL BE VACANT.

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 CONDUCTED PRIOR TO BEGINNING ANY HELICOPTER OPERATIONS

THE AIRCRAFT WILL UTILIZE THE FLIGHT PATH IN DIAGRAM TO ENTER AND EXIT THE OPERATING AREA

1. PRIOR TO THE AIRCRAFT ARRIVAL THE GHI GROUND CREW WILL VERIFY THE LZ STAGING AREA IS SECURE. THE UH-1H WILL ARRIVE FROM THE NORTHWEST LANDING TO CONNECT THE LONGLINE
2. FUELING OPERATIONS WILL BE CONDUCTED AT THE LZ STAGING AREA
3. THE TRANSFORMER AND PAD WILL BE STAGED AT THE STAGING AREA
4. AFTER THE TAILBOARD SAFETY MEETING GHI GROUND CREW WILL WALK TO SECURE AREA WITH SECURITY ENSURE SECURITY IS STAGED IN REFERENCE TO THE DIAGRAMS BELOW.
5. SECURITY WILL BE PROVIDED RADIOS TO HAVE COMMUNICATION WITH THE GHI CREW.
6. HARBOR PATROL, BAYWATCH OR EQUIVALENT WILL PROVIDE SECURITY AT THE MOUTH FO THE HARBOR. NO VESSEL WILL BE PERMITTED TO ENTER THE SECURE ZONE.
7. PRIOR TO BEGINNING LIFT OPERATIONS SECURITY AND GHI GROUND CREW WILL VERIFY THE OPERATING AREA IS UNOCCUPIED.
8. OCEAN CLUB APARTMENT HOMES, THE INTERNATIONAL BOARDWALK, BOAT DOCKS AND BUSINESS WILL BE VACANT WITHIN THE OPERATING AREA.
9. ANY BREACH OF THE SECURE ZONE WILL BE REPORTED ON THE HANDHELD RADIO AND OPERATING WILL CEASE UNTIL THE BREACH HAS BEEN CLEARED.
10. WATER TRUCK IS NOT REQUIRED
11. STREET CLOSURES ARE NOT REQUIRED.
12. PRIOR TO BEGINNING LIFT OPERATIONS SECURITY AND GHI GROUND CREW WILL VERIFY THE OPERATING AREA IS UNOCCUPIED.
13. THE EMERGENCY LANDING ZONE IS AT THE STAGING AREA AND ALONG THE CLEARING ON THE FLIGHT PATH
14. SEE DIAGRAM AND LISTING FOR REQUIRED EVACUATIONS. EVACUATED IN ADDITION ALL STRUCTURES WITHIN THE OPERATING AREA WILL BE VACANT
15. FIRE, SHERIFF DEPARTMENTS AND HARBOR PATROL WILL BE NOTIFIED.



GUARDIAN
HELICOPTERS, INC.

Congested Area Plan (Continued)
(Submit in duplicate)

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
SAMBA BRAZILIAN STEAK HOUSE	VACANT DURING OPS	HAND DELIVER
OCEAN CLUB APPARTMENTS HOMES	VACANT DURING OPS	HAND DELIVER
BETWEEN 164 INTERNATIONAL BOARDWALK AND 120 N INTERNATIONAL BOARDWALK	VACANT DURING OPS	HAND DELIVER
SOUTH BAY SAILING	VACANT DURING OPS	HAND DELIVER
154 INTERNATIONAL BOARDWALK	VACANT DURING OPS	HAND DELIVER
ALL HOMES WITHIN OPERATING AREA	VACANT DURING OPS	HAND DELIVER
SEE DIAGRAM = V	VACANT DURING OPS	HAND DELIVER



Long Beach FSDO
Approved Date: 5/31/19
[Signature]
Aviation Safety Inspector



Long Beach FSDO
 Approved Date: 5/31/19
Kurt B.
 Aviation Safety Inspector



Long Beach FSDO
Approved Date: 5/31/19
Aviation Safety Inspector



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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)	

Jeffrey M. Joubert

5-15-2019

DATE OF SUBMISSION

COMPANY OFFICIAL / TITLE

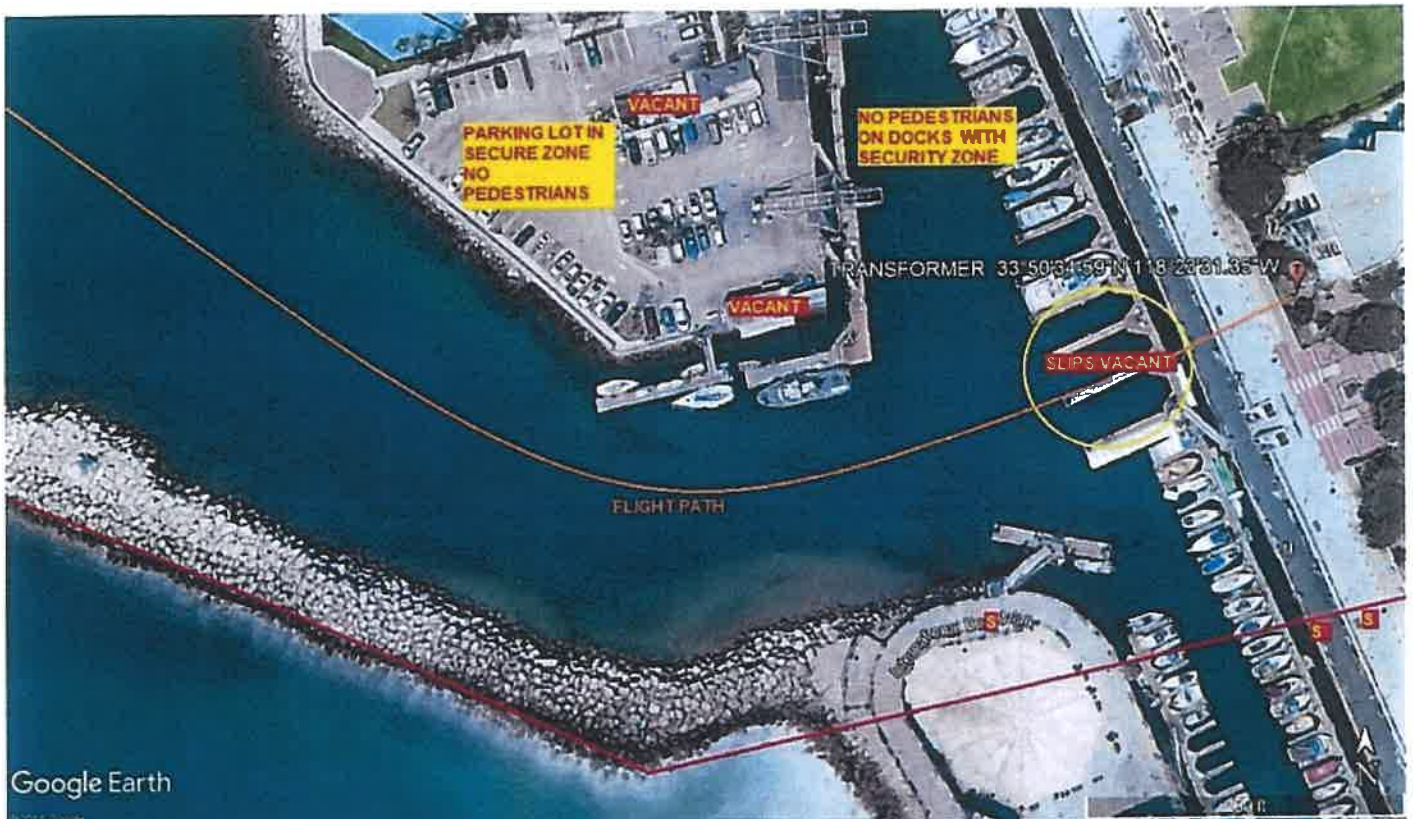
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Kristen
Aviation Safety Inspector



Long Beach FSDO
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