

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:

- ☐ SAFETY BRIEF SIGN IN
- ☐ GHI CREW INTRODUCTION
- ☐ IS A TRANSLATOR REQUIRED
- ☐ WORK STOP AUTHORITY
- ☐ 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

MT Wilson
HEC / Equipment only

Non-cap
5 structures
902942379

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

[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



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: EDISON HEC WORK ORDER #: 902942379
ADDRESS: MOUNT WILSON : ANGELES NATIONAL FOREST CA
MOUNT WILSON LZ STAGING AREA 34°13'21.79"N 118° 3'45.79"W
SOUTH MOST STRUCTURE 34°12'8.39"N 118° 4'38.21"W
PRIOR TO STARTING THE FORMAN WILL FLY WITH PILOT TO LOCATED 5 POLE
LOCATIONS

CONTACT AT SITE GABRIEL ABURTO PHONE# 562-505-0519 cell.
CONTACT AT SITE JUAN ROSAS SCE INSPECTOR PHONE#:626-366-3197
PILOT'S NAME(S): 1. JOHN OLSON CERT #: 2769166

2. BUCKEY MACKAY CERT #: 2778051
3. MICHAEL KLINK CERT #: 3018828
4. ROSS CERT#

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

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

TYPE OF LIFTS: HEC AND EQUIPMENT CLASS OF LOAD: EXTL CL B TYPE OF ITEM LIFTING: HEC ☐
AERODYNAMIC ☒ NON- AERODYNAMIC

NO. OF LIFTS: TBD LONG LINE: (NO) XXX (YES) LESS THEN 100 FT (LENGTH)

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

DATE AND TIMES OPERATION WILL BEGIN AND TERMINATE:

FLIGHT DATES	TIME BEGIN	TIME END	TODAY'S DATE
1-23-2020	SUNRISE	SUNSET	1-18-2020
AGENCY NAME:	PHONE#:	PERSON NOTIFIED:	DATE:
		WATCH COMMANDER	NOTIFY
		STATION	NOTIFY

Evacuation

☒ No Evacuated Structures

☐ Evacuated Structures

Crowd Control

☒ Operator

☒ Contractor

Street Closure

☐ Yes ☒ No

☒ Contractor

☐ Operator



SECTION 7

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

Operator: Guardian Helicopters, Inc
67 D Street
Fillmore, California 93015

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
NONE		
ALL HOMES WITHIN RED OPERATING AREA	VACANT DURING OPS	HAND DELIVER
SEE DIAGRAM = VACANT	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.

PRIOR TO BEGINNING OPERATIONS, A TAILBOARD SAFETY BRIEF WILL BE CONDUCTED.

1. HELICOPTER WILL LAND AT THE MOUNT WILSON TO CONDUCT A HEC TRAINING AND SAFETY TAILBOARD
2. FUELING WILL BE CONDUCTED AT THE LANDING ZONE
3. EMERGENCY LANDING ZONE IS AT THE STAGING AREA AND ALONG THE FLIGHT PATH
4. HEC AND EQUIPMENT WILL BE LIFTED FROM THE LANDING ZONE
5. NO STREET CLOSURES
6. NO WATER TRUCK
7. CUSTOMER WILL PROVIDE CROWD CONTROL AT THE LANDING ZONE
8. NO HOME EVACUATIONS
9. THE CONTRACTOR WILL TRIM TREES IF REQUIRED





Google Earth

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LZ STAGING AREA 34°13'21.79"N 118° 3'45.79"W

200 ft

DIRECTION
303 deg(T)

34.20234°N
118.07766°W

ACCURACY 6 m
DATUM WGS84



Video 16Kv R0's
Damaged Down
guys...

2,700'
S.Mt.Wilson
Observatory

2019-12-28
08:32:28-08:00

DIRECTION
14 deg(T)

34.20233°N
118.07728°W

ACCURACY 12 m
DATUM WGS84



Video 16Kv R0's
Damaged Down
guys...

2,700'
S.Mt.Wilson
Observatory

2019-12-28
08:33:22-08:00

Jeffrey M. Joubert

1-18-2020

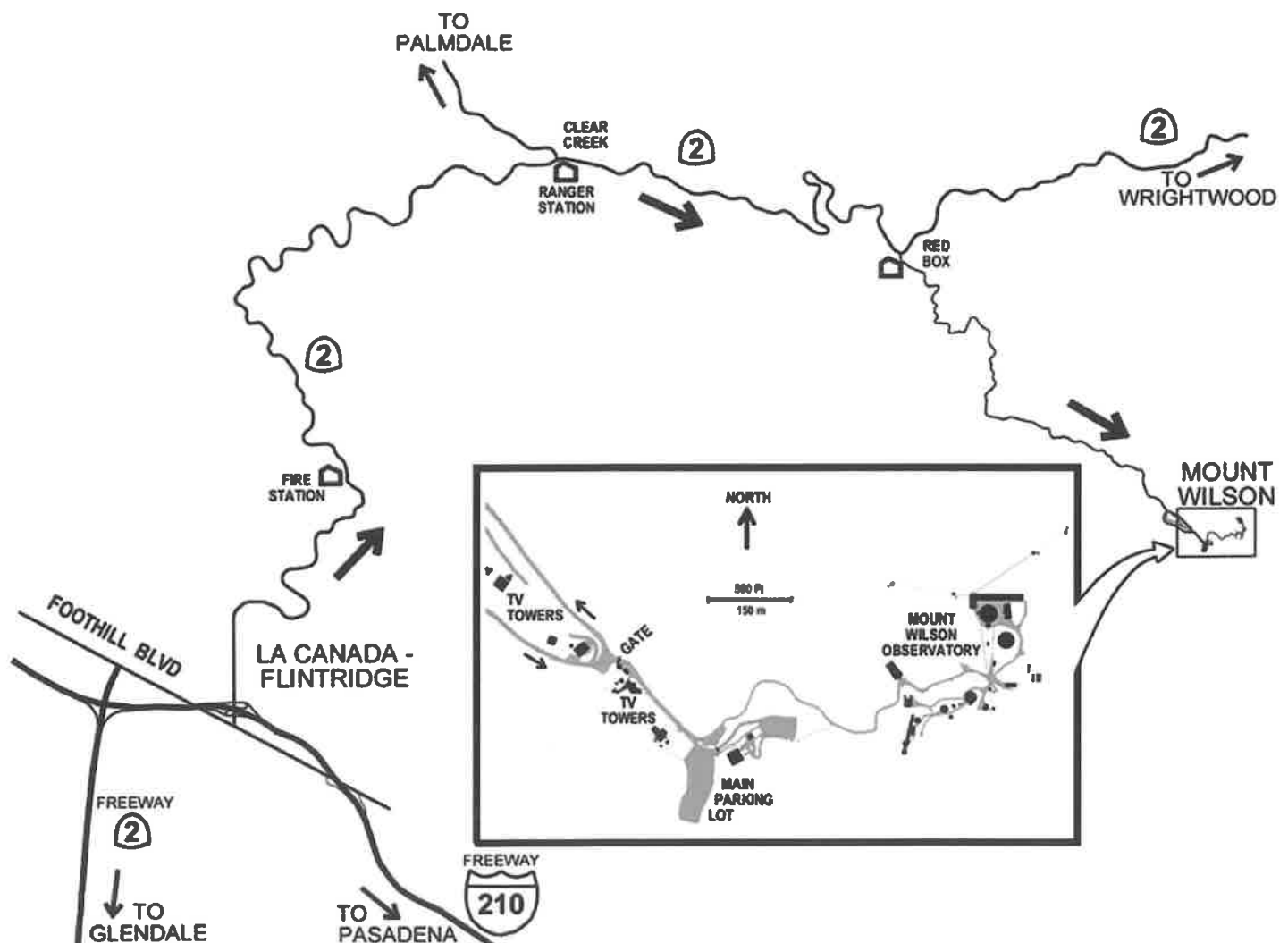
DATE OF SUBMISSION

COMPANY OFFICIAL / TITLE

NOTE: Narrow, winding road. Allow at least 45 minutes from La Canada-Flintridge to Mount Wilson.

DIRECTIONS: From the 210 freeway, follow the Angeles Crest Highway (State Highway 2) north out of La Canada-Flintridge, past the Angeles Forest Highway turnoff to Palmdale, to the Mount Wilson turnoff at Red Box. This is about 14 miles from the 210 Freeway. Drive about 5 miles more to Mount Wilson. You will arrive at a small intersection near a number of transmitter towers. Follow the "Observatory" sign on the one-way road to the far right around the towers until you reach the Forest Service gate, which is the entrance to Skyline Park and the Observatory.

DIRECTIONS TO MOUNT WILSON OBSERVATORY





Air Operation / Air Support Requests

Home Recycle Bin

Flight Request

 SOUTHERN CALIFORNIA EDISON An EDISON INTERNATIONAL Company		Aircraft Operations Flight Request Form		
If you have any questions, please call Aircraft Operations at : 909-974-4676				
- Requestor Information -			Flight Request ID: FR00133	
Flight Requested by: Juan Rosas Requester Email: Juan.Rosas@SCE.Com Office Number: (626) 366-3197 i.e. (xxx) xxx-xxxx		SAP/TD Accounting No: 902942379-0140 *Use commas to separate multiple numbers Cell Number: (626) 366-3197 i.e. (xxx) xxx-xxxx		
Department: Distribution				
- General Flight Information -				
General Area: South of Mount Wilson Observatory Pick-up location: Mount Wilson LZ Coordinates (if known): 34.2227408 -118.0627261 Date for which service is requested: 01/23/2020 ex. 01/01/2019 Note: Do not schedule outages until Air Ops has confirmed aircraft availability		District: MONROVIA Drop-off location: Time of Pick-up: 0800 Back-up mission date (if known):		
Approx. mission duration (if known): 8HRS		EOI related? ☐		
- Flight Description -				
Please choose a mission type:				
Camera: ☐ HD ☐ IR Crew Support: ☐ External Load: ☒ HEC: ☒ Pole Set: ☐		SCE Passenger(s): ☐ Non-SCE Passenger(s): ☐ Patrol: ☐ Photo: ☐ Heli-Saw: ☐ Recon: ☐ Training: ☐ Line Stringing: ☐		
Approval attachment required. >>> Scanned from a Xerox Multifunction Printer.pdf				
Note: Please remove the following characters from the file title before attaching and Zip large files and folders with multiple files: # ~ / \ : * ? " < > %				
Please attach all Work Order Maps and Photos for Pole Sets				
Note: Please contact us at AirOps@sce.com or 909-974-4676 for any issues.				

Mission Specific Details

Contract Crews to replace broken down guys on several H Structures South of Mount Wilson Observatory.

External Load - Approval must be obtained from:

OU Requesting Manager or OSC

Human External Cargo (HEC) - Approval must be obtained from:

OU Director or IC (unless Letter of Delegation is obtained)

Note:

Includes both SCE & Supplemental employees