

HELICOPTER LIFT OPERATIONS SAFETY BRIEF CHECKLIST

PRIOR TO BEGINNING ANY HELICOPTER OPERATION A THOROUGH SAFETY BRIEF WILL BE CONDUCTED UTILIZING THE FOLLOW CHECKLIST: *Sgt MATEO/Moffett*

- ☐ SAFETY BRIEF SIGN IN *PG&E 22-9237*
- ☐ GHI CREW INTRODUCTION *5/31 mob*
- ☐ IS A TRANSLATOR REQUIRED *6/1 work*
- ☐ WORK STOP AUTHORITY *6/2 work*
- ☐ DESIGNATE A 911 CALLER *6/3 Demob*
- ☐ IDENTIFY CLOSEST EMERGENCY MEDICAL SERVICES *Tailboard Newark Substation*
- ☐ CREW FATIGUE AND HYDRATION *43320 Nobel Dr*
- ☐ HELICOPTER LIFT LIMITATIONS *Fremont, CA 94538*
- ☐ 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



HELICOPTER HEC OPERATIONS SAFETY BRIEF CHECKLIST

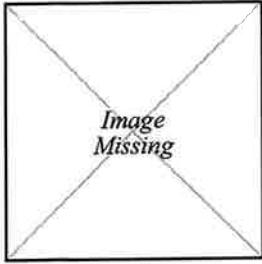
PRIOR TO BEGINNING ANY HELICOPTER HEC OPERATIONS A THOROUGH SAFETY BRIEF WILL BE CONDUCTED UTILIZING THE FOLLOW CHECKLIST THIS DOES NOT SUPERSEDE INITIAL HEC TRAINING REQUIREMENTS

- ☐ **CONDUCT STANDARD HELICOPTER LIFT SAFETY BRIEF PRIOR TO HEC SAFETY BRIEF**
- ☐ **HEC SAFETY BRIEF SIGN IN**
- ☐ **INITIAL HEC TRAINING VERIFIED ISSUE STICKER DISPLAYED ON HELMET**
- ☐ **WORK STOP AUTHORITY**
- ☐ **PPE REQUIREMENTS (HELMETS, EYEWEAR, GLOVES AND FOOTWEAR)**
- ☐ **HARNESS, FITMENT, CONDITION AND LOAD LIMIT**
- ☐ **PROPER USE OF ATTACHMENT EQUIPMENT (CARABINERS)**
- ☐ **BUDDY /SELF CHECK**
- ☐ **COMMUNICATIONS REQUIREMENTS VIA RADIO OR HEAD AND HAND SIGNALS (RADIO WILL BE TETHERED OR SECURED)**
- ☐ **NO EQUIPMENT WILL BE TRANSPORTED DURING HEC**
- ☐ **HEC SHORT HAUL OPERATIONS PLAN, DAILY MISSION**
- ☐ **INSERTION POINT AND AREA HAZARDS**
- ☐ **HEC ATTACH ZONE AND WAITING AREA**
- ☐ **EMERGENCY PROCEDURES; ENGINE FAILURE, TR FAILURE, HOOK FAILURE, LINE ENTANGLEMENT)**
- ☐ **NO CELL PHONE OR CAMERA USED DURING HEC**

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 ☐ <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

22-01237 Request Summary



Requestor	Kristopher Jay Banzon	Request Date	05/27/2022
LAN ID	KJBS	Work Type	Lift Work
Phone	(707) 835-4153	Lift Work Type	HEC -
Cell	(707) 835-4153		Non-Energized
LOB	Electric Transmission	For Contractor	Yes
	Line		PAR
Vendor	Guardian Helicopters		

Work Dates

05/31/2022 - 06/03/2022 BELL 407

Approver	Superintendent Michael E Willey (MEWK)	MEWk@pge.com	(C) (916) 804-4526
Foreman	Jerod Downing (JZDA)	(P) (707) 815-6506	(C) (707) 815-6506

Scope of Work SAN MATEO COUNTY
RAVENSWOOD-AMES #2 115 KV
CAP- NIL
RQD NOTIFICATIONS- NUQ & PAO TOWER

USFS/NATIONAL PARK TERRITORY- NIL
NOTIFICATIONS MADE- NIL

SCOPE- HELICOPTER TO TRANSPORT WORKERS, TOOLS, AND MATERIALS TO
NUMEROUS WL'S FOR BIRD/NEST REMOVAL AND POTENTIALLY AN INSULATOR CHANGE
OUT. WORK WILL BE OVER THE BAY BUT NO MIDSPAN WORK TO BE PERFORMED.
**PAIRS WITH 2 PJS LIGHTS ON R1231, THEY WILL BE WORKING OUT OF THE NEWARK
SUBSTATION**

LZ/WORK LOCATION INFORMATION-
LZ- OK, AT SUBSTATION WITH NUMEROUS TRANSMISSION CIRCUITS AND IS WITHIN 300
FT OF ROAD. PER REQUESTER, LZ APPROVAL RECIEVED
LZ DIAMETER VERIFIED FOR TYPE 3 AIRCRAFT- 75 FEET DIAMETER

WL- OK, OTHER TRANSMISSION CIRCUITS RUNNING PARALLEL AND WILL BE OVER
WATER.

PER REQUESTER, TRAFFIC MITIGATION WILL BE IN PLACE

Daily Information

05/31/2022

Reason for Request in Less than 10 Days:

Other

Reason for Request in Less than 10 Days Explained:

EXTENSION TO R1231, DUE TO ENVIRONMENTAL REQUIRING BIRDS/NEST REMOVAL

Asset Category: LIGHT

Asset Type: BELL 407

Locations

22-01237 Request Summary

13:00 - LZ

POSITION LEG

<no lat/lon>

<no headquarters>

Dust/Snow Mitigation Plan: ---

Est. Use Hours	3.00	Vendor	Guardian Helicopters
Contract	PSPS GUARDIAN (407)	Over Water	Yes
Fuel Truck	Yes	Cargo Weight	1000.0 lbs
Special Equipment	---	Billing Number	31533811 100%
Comments	Request Pilot to contact the following personnel 1 day before the scheduled start.Kris Banzon- 707 835 4153	Req. Notifications	---

structures (12 Towers): 3/25, 3/26, 4/27, 4/28, 4/29, 4/30, 4/31, 4/32, 5/33, 5/34, 5/35 and 5/36 Ravenswood-Ames #2 115KV Line.

22-01237 Request Summary

06/01/2022

Reason for Request in Less than 10 Days:

Other

Reason for Request in Less than 10 Days Explained:

EXTENSION TO R1231, DUE TO ENVIRONMENTAL REQUIRING BIRDS/NEST REMOVAL

Asset Category: LIGHT

Asset Type: BELL 407

Locations

--- - Work Location

0800- HELICOPTER TO LAND AT NEWARK SUBSTATION TO TAILBOARD WITH PG&E CREW ON R1231 (TWO PJ'S LIGHTS)	37 30.12'N 121 58.84'W	<no headquarter s>	<no county>
---	---------------------------------	--------------------------	----------------

Dust/Snow Mitigation Plan: Surface is composed of low vegetative cover.

09:00 - LZ	LZ- AMES SUBSTATION	37 25.11'N 122 04.00'W	<no headquarters>	<no county>
-------------------	---------------------	---------------------------	-------------------	-------------

Dust/Snow Mitigation Plan: ---

--- - Work Location

10271 RAVENSWOOD-AMES #2 115 KV	37 27.23'N 122 05.53'W	Line #: METCALF 3/25	<no county>	5 ft
---------------------------------	---------------------------------	-------------------------	----------------	---------

Dust/Snow Mitigation Plan: ---

--- - Work Location

10271 RAVENSWOOD-AMES #2 115 KV	37 26.92'N 122 04.79'W	Line #: METCALF 4/30	<no county>	5 ft
---------------------------------	---------------------------------	-------------------------	----------------	---------

Dust/Snow Mitigation Plan: ---

--- - Work Location

10271 RAVENSWOOD-AMES #2 115 KV	37 26.19'N 122 04.28'W	Line #: METCALF 5/36	<no county>	5 ft
---------------------------------	---------------------------------	-------------------------	----------------	---------

Dust/Snow Mitigation Plan: ---

--- - Work Location

SEE COMMENTS FOR ADDTIONAL WL'S	<no lat/lon>	<no headquarter s>
---------------------------------	-----------------	--------------------------

Dust/Snow Mitigation Plan: ---

Est. Use Hours	8.00	Vendor	Guardian Helicopters
Contract	PSPS GUARDIAN (407)	Over Water	Yes
Fuel Truck	Yes	Cargo Weight	1000.0 lbs
Special Equipment	---	Billing Number	31533811 100%
Comments	Request Pilot to contact the following personnel 1 day before the scheduled start.Kris Banzon- 707	Req. Notifications	---

22-01237 Request Summary

835 4153

structures (12 Towers): 3/25, 3/26,
4/27, 4/28, 4/29, 4/30, 4/31, 4/32,
5/33, 5/34, 5/35 and 5/36
Ravenswood-Ames #2 115KV Line.

22-01237 Request Summary

06/02/2022

Reason for Request in Less than 10 Days:

Other

Reason for Request in Less than 10 Days Explained:

EXTENSION TO R1231, DUE TO ENVIRONMENTAL REQUIRING BIRDS/NEST REMOVAL

Asset Category: LIGHT

Asset Type: BELL 407

Locations

--- - Work Location

0800- HELICOPTER TO LAND AT NEWARK SUBSTATION TO TAILBOARD WITH PG&E CREW ON R1231 (TWO PJ'S LIGHTS)	37 30.12'N 037 30.12'W	<no headquarter s>	<no county>
---	---------------------------------	--------------------------	----------------

Dust/Snow Mitigation Plan: Surface is composed of low vegetative cover.

09:00 - LZ	LZ- AMES SUBSTATION	37 25.11'N 122 04.00'W	<no headquarters>	<no county>
------------	---------------------	---------------------------	-------------------	-------------

Dust/Snow Mitigation Plan: ---

--- - Work Location

10271 RAVENSWOOD-AMES #2 115 KV	37 27.23'N 122 05.53'W	Line #: METCALF 3/25	<no county>	5 ft
---------------------------------	---------------------------------	-------------------------	----------------	---------

Dust/Snow Mitigation Plan: ---

--- - Work Location

10271 RAVENSWOOD-AMES #2 115 KV	37 26.92'N 122 04.79'W	Line #: METCALF 4/30	<no county>	5 ft
---------------------------------	---------------------------------	-------------------------	----------------	---------

Dust/Snow Mitigation Plan: ---

--- - Work Location

10271 RAVENSWOOD-AMES #2 115 KV	37 26.19'N 122 04.28'W	Line #: METCALF 5/36	<no county>	5 ft
---------------------------------	---------------------------------	-------------------------	----------------	---------

Dust/Snow Mitigation Plan: ---

--- - Work Location

SEE COMMENTS FOR ADDITIONAL WL'S	<no lat/lon>	<no headquarter s>
----------------------------------	-----------------	--------------------------

Dust/Snow Mitigation Plan: ---

Est. Use Hours	8.00	Vendor	Guardian Helicopters
Contract	PSPS GUARDIAN (407)	Over Water	Yes
Fuel Truck	Yes	Cargo Weight	1000.0 lbs
Special Equipment	---	Billing Number	31533811 100%
Comments	Request Pilot to contact the following personnel 1 day before the scheduled start.Kris Banzon- 707	Req. Notifications	---

22-01237 Request Summary

835 4153

structures (12 Towers): 3/25, 3/26,
4/27, 4/28, 4/29, 4/30, 4/31, 4/32,
5/33, 5/34, 5/35 and 5/36
Ravenswood-Ames #2 115KV Line.

22-01237 Request Summary

06/03/2022

Reason for Request in Less than 10 Days:

Other

Reason for Request in Less than 10 Days Explained:

EXTENSION TO R1231, DUE TO ENVIRONMENTAL REQUIRING BIRDS/NEST REMOVAL

Asset Category: LIGHT

Asset Type: BELL 407

Locations

13:00 - LZ

POSITION LEG

<no lat/lon>

<no headquarters>

Dust/Snow Mitigation Plan:

Surface is composed of low vegetative cover.

Est. Use Hours	3.00	Vendor	Guardian Helicopters
Contract	PSPS GUARDIAN (407)	Over Water	Yes
Fuel Truck	Yes	Cargo Weight	1000.0 lbs
Special Equipment	---	Billing Number	31533811 100%
Comments	Request Pilot to contact the following personnel 1 day before the scheduled start.Kris Banzon- 707 835 4153	Req. Notifications	---

structures (12 Towers): 3/25, 3/26, 4/27, 4/28, 4/29, 4/30, 4/31, 4/32, 5/33, 5/34, 5/35 and 5/36 Ravenswood-Ames #2 115KV Line.

Talk About #

105

Talk Group

105

Talk Radio #

105

22-01237 - May 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
		13:00 -16:00 BELL 407 0800- HELICOPTER TO.. 37 30.12'N 037 30.12'W	09:00 -17:00 BELL 407 0800- HELICOPTER TO.. 37 30.12'N 121 58.84'W	09:00 -17:00 BELL 407 0800- HELICOPTER TO.. 37 30.12'N 037 30.12'W	13:00 -16:00 BELL 407 POSITION LEG	
5	6	7	8	9	10	11
12						

22-01237 - June 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	31 13:00 -16:00 BELL 407 0800- HELICOPTER TO.. 37 30.12'N 037 30.12'W	1 09:00 -17:00 BELL 407 0800- HELICOPTER TO.. 37 30.12'N 121 58.84'W	2 09:00 -17:00 BELL 407 0800- HELICOPTER TO.. 37 30.12'N 037 30.12'W	3 13:00 -16:00 BELL 407 POSITION LEG	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10						



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 HEC CARGO WORK ORDER #: 22-01237
ADDRESS: STEVENS CREEK TRAIL CITY: MOUNTAIN VIEW STATE: CA
LZ STAGING AREA 37°25'6.50"N 122° 3'59.73"W
SEE ATTACHED FLIGHT REQUEST AND KMZ FILE

CONTACT REQUESTOR: MICHAEL WILLEY PHONE#: 916-804-4526

CONTACT FORMAN: JEROD DOWNING PHONE#: 707-815-6506

PILOT'S NAME(S):

1. MICHAEL KLINK CERT#: 3018828
2. BUCKEY MACKAY CERT #: 2778051
3. IAN GOODALE CERT#: 3741973
4. ROSS GOULET CERT#: 3396777
5. TREVOR NEEDHAM CERT#: 3597688

TYPE OF AIRCRAFT:

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 407 N# N111GH A/C CATEGORY: STANDARD
BELL 205A1 N# N216GH A/C CATEGORY: STANDARD
BELL 205A1 N# N211GH A/C CATEGORY: STANDARD
AS350 B2 N# N498PT 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 LOAD: EXT CL B TYPE OF ITEM LIFTING: ☐ AERODYNAMIC ☒ NON-AERODYNAMIC LONG LINE: (NO) XXX (YES) LESS 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
6-1 THRU 6-2	SUNRISE	SUNSET	5-26-2022
<u>AGENCY NAME:</u>	<u>PHONE#:</u>	<u>PERSON NOTIFIED:</u>	<u>DATE:</u>
MOUNTAIN VIEW POLICE DEPARTMENT	650-903-6344	DISPATCH	NOTIFIED
MOUNTAIN VIEW FIRE DEPARTMENT	650-903-6365	STATION 5	NOTIFIED
NASA AMES FIRE DEPARTMENT	650-604-6953	MOFFET	MONITOR
MOFFET FEDERAL AIRFIELD	650-386-0677	MOFFET	MONITOR



Part 135 GH 4A Part 133 GH 4L

NON Congested Area Plan

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
NO EVACUATIONS	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. HELICOPTERS WILL LAND AT LZ TO CONDUCT A TAILBOARD AND HEC TRAINING
2. IF REQUIRED A WATER TRUCK WILL BE PROVIDED FOR THE LZ
3. FLYERS AND CARGO WILL BE LIFTED FROM LZ
4. NO EVACUATIONS
5. STEVENS CREEK TRAIL AND DIRT ROAD TRAILS ALONG STEVENS CREEK WILL BE CLOSED

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 = (UB)	UNOCCUPIED BUILDING TOP FLOOR = (UBT1)	







Jeffrey M. Teubner

5-31-2022
DATE OF SUBMISSION

COMPANY OFFICIAL / TITLE
Jeffrey M. Teubner Flight Coordinator