

HELICOPTER LIFT OPERATIONS SAFETY BRIEF CHECKLIST

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

- ☐ SAFETY BRIEF SIGN IN *PGE 21-03004*
- ☐ GHI CREW INTRODUCTION *N4076H HEL/cargo/Air chair*
- ☐ IS A TRANSLATOR REQUIRED *Non-CAP*
- ☐ WORK STOP AUTHORITY *12-16-2021*
- ☐ DESIGNATE A 911 CALLER *12-17-2021*
- ☐ IDENTIFY CLOSEST EMERGENCY MEDICAL SERVICES *12-18-2021*
- ☐ 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



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 ☐ 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

21-03004 Request Summary (Guardian Helicopters)



Requestor	Robert J Greenwood	Request Date	11/15/2021
LAN ID	rjgu	Work Type	Lift Work
Phone	(661) 670-0168	Lift Work Type	HEC -
Cell	(661) 670-0168		Non-Energized
LOB	Electric Transmission	For Contractor	No
	Line		
Vendor	Guardian Helicopters		

Work Dates

12/16/2021 - 12/18/2021 BELL 407

Approver	Superintendent David E Bales (DEBO)	DEBO@PGE.COM	(C) (559) 906-7497
Foreman	Mark S Stacy (MSSY)	(P) (661) 401-8896	(C) (661) 401-8896

Scope of Work KERN COUNTY
MIDWAY-WHIRLWIND 500 KV
CAP- NIL
DISPATCH NOTIFICATIONS- NIL

USFS/NATIONAL PARK TERRITORY- NIL
APPROVAL RECEIVED- NIL

SCOPE- HEC- TAIL BOARD AT L.Z , FLY LINEMAN TO TOWER BRIDGE AND RETURN TO LZ.
FROM LZ TO TOWER AND PICK UP LINEMAN AND GO TO NEXT TOWER TO REPAIR ZENA
GUARDS AND KNOCK IN COTTER KEY'S ON COLD END . REPEAT OVER AND OVER
.THANK YOU

LZ/WORK LOCATION INFORMATION-
LZS- OK, NO OBSTRUCTIONS. LZ APPROVALS RECEIVED.
LZ DIAMETER VERIFIED FOR TYPE 3 AIRCRAFT- 80 FEET DIAMETER

WORK LOCATION(S)- OK, NO OBSTRUCTIONS.

DUST/ TRAFFIC MITIGATION TO BE PROVIDED BY PG&E.

Daily Information

12/16/2021 - 12/18/2021

Asset Category: LIGHT

Asset Type: BELL 407

Locations

08:00 - LZ	LZ- 1	35 23.06'N 119 23.63'W	<no headquarters>	<no county>
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Dust/Snow Mitigation Plan:	Surface will have water applied prior to landing.
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--- - Work Location

21-03004 Request Summary (Guardian Helicopters)

50010 MIDWAY-WHIRLWIND 500	35	Line #: 2/17	MIDWAY	<no county>	232 ft
KV	23.24'N				
	119				
	24.82'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ- 2	35	Line #: MIDWAY-WHIRLWIND	<no headquarters>	<no county>	233 ft
	23.04'N	8/49			
	119				
	17.77'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

50010 MIDWAY-WHIRLWIND 500	35	Line #: 8/49	MIDWAY	<no county>	234 ft
KV	22.74'N				
	119				
	15.97'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ-3	35	Line #: MIDWAY-WHIRLWIND	<no headquarters>	<no county>	240 ft
	18.51'N	18/76			
	119				
	10.93'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

50010 MIDWAY-WHIRLWIND 500	35	Line #: 18/76	MIDWAY	<no county>	242 ft
KV	18.36'N				
	119				
	10.94'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ-4	35	Line #: MIDWAY-WHIRLWIND	<no headquarters>	<no county>	245 ft
	14.04'N	24/102			
	119				
	06.20'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

50010 MIDWAY-WHIRLWIND 500	35	Line #: 24/102	MIDWAY	<no county>	251 ft
KV	13.94'N				
	119				
	06.27'W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

21-03004 Request Summary (Guardian Helicopters)

LZ-5	35	Line #: MIDWAY-WHIRLWIND	<no headquarters>	<no county>	243 ft
	08.98°N	32/132			
	119				
	00.69°W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

50010 MIDWAY-WHIRLWIND 500 KV	35	Line #: 32/132	MIDWAY	<no county>	244 ft
	08.93°N				
	119				
	00.98°W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ-6	35	Line #: MIDWAY-WHIRLWIND	<no headquarters>	<no county>	247 ft
	07.71°N	38/154			
	118				
	55.91°W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

50010 MIDWAY-WHIRLWIND 500 KV	35	Line #: 38/154	MIDWAY	<no county>	251 ft
	07.53°N				
	118				
	55.86°W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

LZ-7	35	Line #: MIDWAY-WHIRLWIND	<no headquarters>	<no county>	253 ft
	07.11°N	40/166			
	118				
	50.02°W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

--- - Work Location

50010 MIDWAY-WHIRLWIND 500 KV	35	Line #: 40/166	MIDWAY	<no county>	247 ft
	07.50°N				
	118				
	52.78°W				

Dust/Snow Mitigation Plan: Surface will have water applied prior to landing.

Est. Use Hours	6.00	Vendor	Guardian Helicopters
Contract	---	Over Water	No
Fuel Truck	Yes	Cargo Weight	410.0 lbs
Special Equipment	HEC Gear	Billing Number	45021368 100%
Comments	---	Req. Notifications	---

Talk About #	108	Talk Group	108	Talk Radio #	108
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21-03004 (Guardian Helicopters) - December 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
18	19	20	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16 08:00 -14:00 BELL 407 LZ-1 35 23.06'N 119 23.63'W	17 08:00 -14:00 BELL 407 LZ-1 35 23.06'N 119 23.63'W	18 08:00 -14:00 BELL 407 LZ-1 35 23.06'N 119 23.63'W
19	20	21	22	23	24	25
26	27	28	29	30	31	
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 HEC

WORK ORDER #: 21-03004

ADDRESS: BOWERBANK AND 5 FWY CITY: BAKERSFIELD STATE: CA

LZ 1 STAGING AREA 35°23'3.60"N 119°23'37.80"W

LZ 2 35°23'2.07"N 119°17'46.24"W

LZ 3 35°18'30.60"N 119°10'55.80"W

LZ 4 35°14'2.40"N 119° 6'12.00"W

LZ 5 35° 8'58.80"N 119° 0'41.40"W

LZ 6 35° 7'42.60"N 118°55'54.60"W

LZ 7 35° 7'6.60"N 118°50'1.20"W

SEE ATTACHED FLIGHT REQUEST AND KMZ FILE

CONTACT REQUESTOR: ROBERT GREENWOOD

PHONE#: 661-670-0168

CONTACT FORMAN: MARK STACY

PHONE#: 661-401-8896

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#: 3396777
6. TREVOR NEEDHAM CERT#: 3597668

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 205A1 N# N216GH A/C CATEGORY: STANDARD

BELL 205A1 N# N211GH 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 CARGO INSULATOR LESS 1000LBS 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
12-16-2021	SUNRISE	SUNSET	12-7-2021
12-17-2021	SUNRISE	SUNSET	12-7-2021
12-18-2021	SUNRISE	SUNSET	
AGENCY NAME:	PHONE#:	PERSON NOTIFIED:	DATE:
KERN COUNTY SHERIFF DEPARTMENT	661-764-5613	BUTTONWILLOW	NOTIFIED
KERN COUNTY FIRE DEPARTMENT	661-589-8977	STATION 67	NOTIFIED



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.

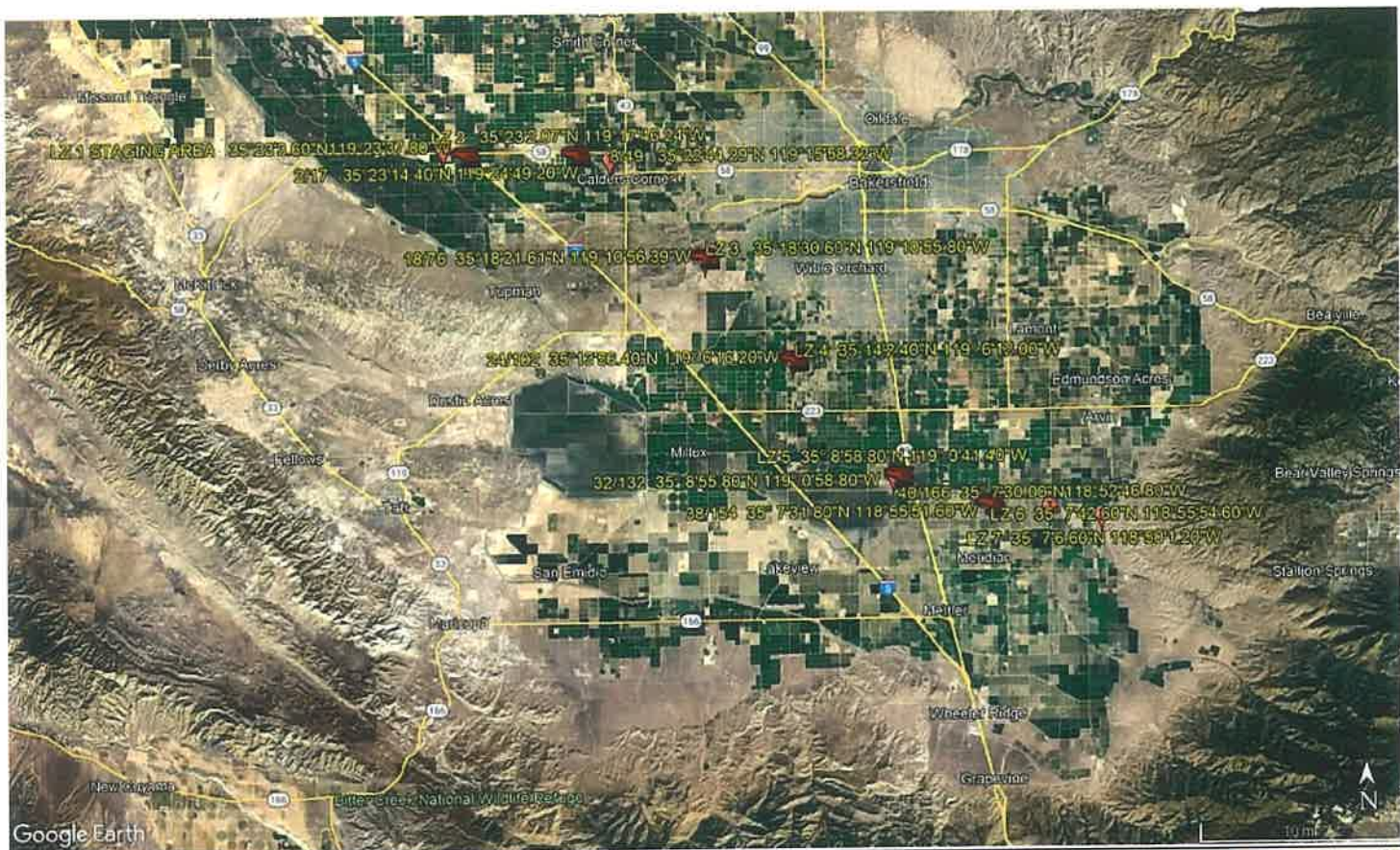
THE OPERATIONS AREA IS WITHIN THE SECURED AREA. ALL ESSENTIAL CREW WITHIN THE OPERATIONS AREA WILL NOT BE INVOLVED IN TAKING PICTURES OR ANY OTHER USE OF CELL PHONES.

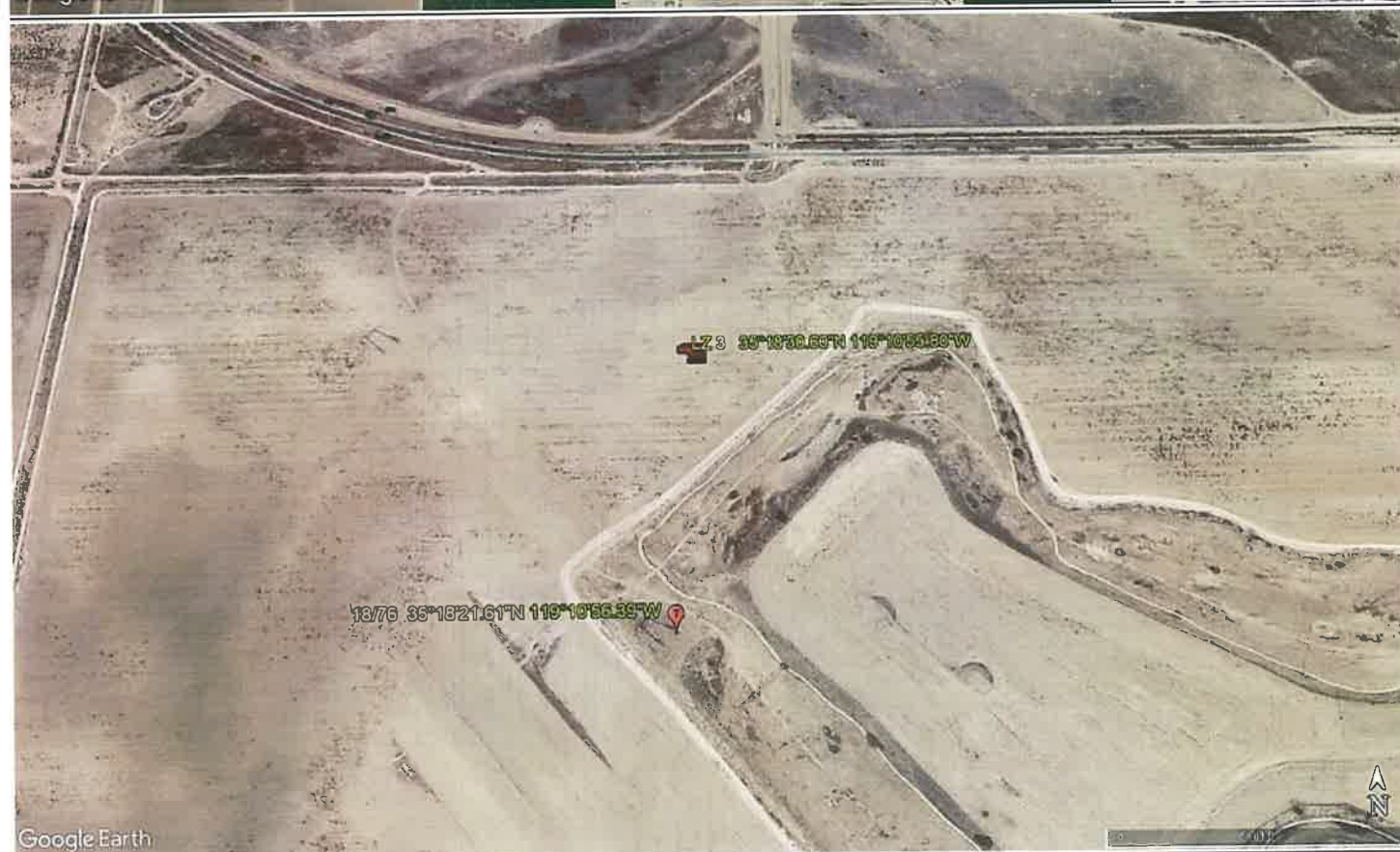
PRIOR TO BEGINNING OPERATIONS, A TAILBOARD SAFETY BRIEF WILL BE CONDUCTED.

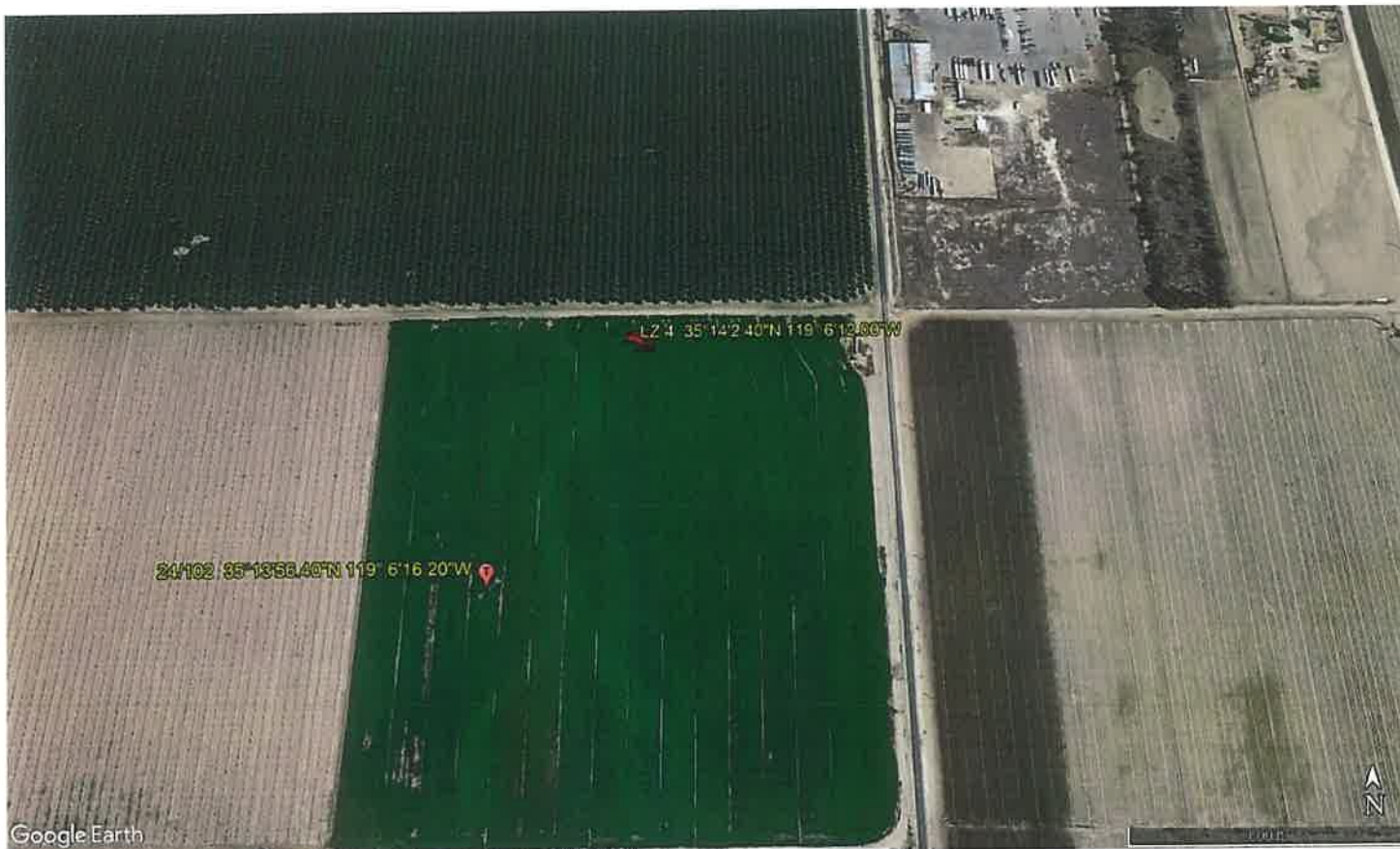
1. HELICOPTERS WILL LAND AT LZ TO CONDUCT A TAILBOARD AND HEC TRAINING
2. IF REQUIRED A WATER TRUCK WILL BE PROVIDED FOR THE LZ
3. CREWS WILL MOVE TO ASSIGNED LZ STAGING AREA
4. NO EVACUATIONS
5. NO ROAD CLOSURES

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

12-7-2021
DATE OF SUBMISSION

COMPANY OFFICIAL / TITLE
Jeffrey M. Teubner Flight Coordinator