

Hoohana Solar
Exhibit H2

Ho'ohana Solar Farm

T&E Species Awareness Training 2022



Prepared by AECOS, Inc.

Purpose of this Training

- Several species currently listed under State, and Federal-Endangered Species statutes may occasionally use resources on the job site.
- The project has specific endangered species protocols in place
- All contractors and managers are required to follow the simple protocols
- There are potentially significant legal implications if the protocols are not followed

Regulatory Setting

- Federal The Endangered Species Act of 1973, as amended (ESA)
- Federal Migratory Bird treaty act (MBTA)
- State of Hawai'i - Hawaii Revised Statutes (Chapter 195-D)

- **IT IS ILLEGAL TO:**

“harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct” any species listed under any of these statutes

Agency and Endangered Species Program Contacts

Who to Call?

Construction Management

John Dawley, Power Global: (808) 397-3321

Group70 Project Coordinator

Tracy Camuso, G70: (808) 441-2125

Wildlife Agencies

USFWS-Pacific Islands Fish and Wildlife Office: (808) 792-9400

HDLNR Non-game Wildlife Manager: (808) 348-0652

Endangered Hawaiian Waterbirds

- Habitat for endangered Hawaiian waterbirds is not currently present in the Project area.
- Avoid creating puddles or other standing water. Endangered Hawaiian waterbirds may be encountered if waterbird habitat is created by allowing water to accumulate in depressions during construction.

Ae`o, Hawaiian ssp. Black-necked Stilt



ʻAlae keʻokeʻo, Hawaiian Coot



Reginald David ©

`Alae`ula, Hawaiian ssp. Common Gallinule



Reginald David ©

Special Rules and Prohibitions

- No dogs or other pets are allowed on the site
- If you eat your lunches anywhere on the property, police up all of your trash, bento boxes, food scraps and soda and water bottles and remove from the site – or place in covered trash receptacles
- Do not feed or approach any animals on the site
- Cease all work within 100 ft of a protected bird. Do not approach. Work may resume once the bird has left by its own volition.
- If an endangered Hawaiian waterbird nest is found, the Project manager must inform USFWS-PIFWO within 48 hours. Cease all work within 100 ft of any nests with eggs or chicks.

Pueo, Hawaiian ssp. Short-eared Owl



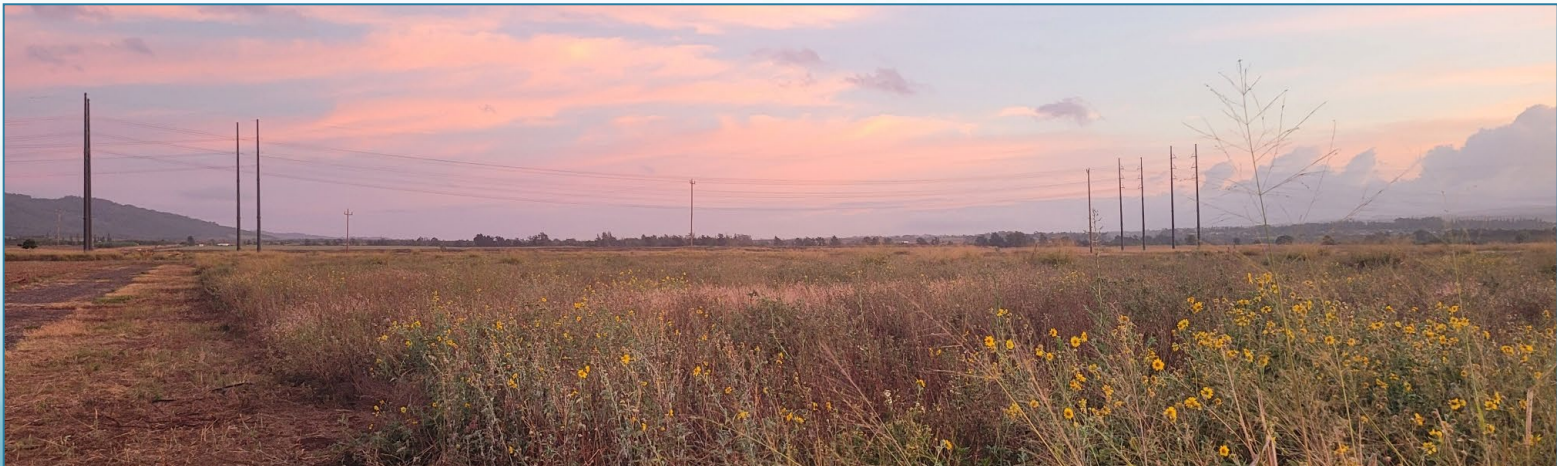
Reginald David ©

Barn Owl – *Tyto alba*



Construction Crew Response Protocol - Hawaiian ssp. Short-eared Owl

- Short-eared Owl or *pueo* are State-listed as endangered on O'ahu only.
- Habitat for Short-eared Owl may occur at the site. Short-eared Owl nest on the ground and are susceptible to ground disturbance.
- If an owl nest is discovered, Hawai'i Department of Land and Natural Resources (DLNR) must be notified before proceeding with any activity that could disturb the nest.



Hawaiian hoary bat – Special Rules



- No cutting of tall trees 15 ft or taller between June 1st to September 15th
- Do not install barbed wire on fences within the Project site

(Photo: USGS/C. Pinzari)

Seabird Fallout Season Issues

- Avoid nighttime construction when possible, especially during the seabird fledging season (September 15 to December 15).
- Night flying seabirds are often attracted to lights.
- Fledgling (*keiki*) birds on their way to sea for the first time can be confused by lights.



Take Home Message

- The harming of listed species may be construed as “take” under the ESA, and/or HRS 195D.
- The minimization and avoidance of “take” to the maximum extent practicable is required under both federal and State of Hawai‘i endangered species statutes
- Failure to do so may result in enforcement action, which may result in significant civil and criminal penalties
- Penalties include civil fines of up to \$25,000 per incident, and criminal fines of up to \$50,000, and up to one-year federal imprisonment per incident
- **Non-compliance with any of the endangered species rules and protocols will result in immediate disciplinary action**

Mahalo

- *PowerGlobal/G70, thank all of you for your attention and assistance for implementing this awareness training*
- *We take pride in our continued efforts to protect the natural resources on the Island of O'ahu, and we can't do it without your kokua*
- *Protection of these native resources is everyone's responsibility and is in the common interest of the Island community and future generations*

Just in Case – Nighttime if Construction is Required



Seabird Fallout Season Issues

- Night flying seabirds are often attracted to lights
- Fledgling (*keiki*) birds on their way to sea for the first time are often attracted to lights and can be confused by them
- Confused birds may collide with structures, or simply land on the ground too tired to continue flying



T&E Night-flying Seabirds



A`o or Newell's Shearwater



`Ua`u or Hawaiian Petrel



'Akē'akē or Band-rumped Storm-Petrel

Protected Seabird Species cont.



***`Ua`u* kani or Wedge-tailed Shearwater**



***`Ou* or Bulwer's Petrel**

Seabird Response Protocol

- If nighttime construction is necessary, a biological monitor may be required.
- In the event that you see a seabird circling lights, or find one on the ground, immediately report it to your supervisor.
- Stay with the animal until a biological monitor responds.
- Follow any instructions that monitor gives you.
- The monitor will shut down the job for 1 hour.
- When the lights come back on – if the monitor has to shut the job down again – it will be shut down for the rest of the night.