Virtual Public Scoping Meeting

Rehabilitate and Upgrade the Existing Electrical System Environmental Assessment

Kalaupapa National Historical Park National Park Service

December 17, 2020 10:00 AM HST





Meeting Protocols



Welcome!

• This meeting will begin shortly.

- Please check your audio connection.
- This meeting will be recorded.
- You have been muted upon entry and will remain on mute throughout the presentation.
- For questions, please enter them in the Questions & Answers (Q&A) box at any time during the presentation.
 - Please enter your name and geographic location as part of your question.
 - Questions will be read out loud after the presentation.
 - If you do not hear your question, it is because we are grouping similar questions by topic, or we will need to get back to you with an answer via e-mail.

Agenda

- Background
- Purpose of the Project
- Need for the Project
- Potential Alternatives
- The Planning Process
- How to Comment
- Q&A



An aging electrical transformer at the park.

Background

- The current electrical system at the park was installed in 1969.
- The electrical system is owned by the State of Hawai'i Department of Health (HDOH) and the State of Hawai'i Department of Land and Natural Resources. The electrical system also crosses State of Hawai'i Department of Hawaiian Home Lands property.
- Power outages occur frequently within the park because of deteriorated transformers, worn and frayed transmission lines, and pole and insulator failures.*
- The electrical system has created a variety of health and safety concerns for patient-residents, National Park Service (NPS) and HDOH staff, and visitors.





Kalaupapa Hospital, a structure built in 1932 that burned down in 1990 due to old electrical wiring.

*NPS 2017. Predesign Report to Rehabilitate the Unsafe and Failing Electrical System for the Settlement at Kalaupapa National Historical Park. KALA-217676.

Background

• Rehabilitating and upgrading the electrical system would improve efficiency, comply with current Maui and Hawai'i Electric Company code standards for future operations, increase reliability, reduce deferred maintenance, and remove health and safety concerns.

5

- The electrical system throughout the Kalaupapa peninsula has components that are part of the original power supply system and are contributing elements to the National Historic Landmark nomination.
- Work to upgrade and replace these components and newer components and lines will be guided through appropriate consultation to determine relocations and installation.





Rehabilitating the failing electrical system would improve health and safety in the park.

Purpose of the Project



The purpose of the project is to provide the park and the settlement with a reliable electrical system that is readily and easily serviceable and complies with federal regulations.

Need for the Project

- The project is needed because the condition of the electrical system is substandard, inadequate, and presents risks to the park's visitors, inhabitants, and structures.
- The existing components that make up the electrical distribution system are at or near the end of their useful service life, and rehabilitation is required to support existing facilities.

Potential Alternatives



- No-action Alternative: The no-action alternative would not rehabilitate the failing electrical system at the park and the settlement.
- Rehabilitate the Existing Electrical System Alternative: This alternative would repair and upgrade the settlement's single and three-phase overhead electrical system to a looped system and connect the existing water pump house and backup generator locations.

Improvements would meet current industry standards and codes, remove safety hazards, improve reliability, address deferred maintenance, and reduce dependency on the diesel generator for electricity.

Potential Alternatives



Rehabilitate the Existing Electrical System Alternative (continued):

- Within the existing electrical system alignment and settlement area, this alternative would:
 - Replace 110 power poles

8

- Upgrade 13 poles from single phase to three phases
- Upgrade insulators and attachment hardware for all poles
- Replace and upgrade 39,000 linear feet of overhead wire as needed
- Replace 2 pad-mounted and 23 pole-mounted transformers
- Install a new alignment of 20 poles along Kamehameha Street to reduce potential impacts on cultural resources and documented archeological sites and facilitate access for pole maintenance

Upgrade Electrical Distribution System, Reroute the Aboveground System Along Airport Road, Connect the Water Treatment Facility to the Power Grid Underground, and Provide New Modular Electrical Enclosure, Generator and Fuel Storage Tank.





0	Replace Pole Mounted Transformer
0	Replace Pad Mounted Transformer
۵	Replace Pole & Pole Mounted Transformer

Replace Pole

Remove Pole

- Upgrade Existing Line - Remove Cabling - Existing Water Line¹ Motes - - Existing Water Line²

---- New Below Ground Line

1. Source: unknown date, NPS-provided CAD file named "KALA_utilities.dwg" 2. Source: 1983, Reconstruct Water System Dwg, Sheets 10 & 11



Alternative - Upgrade Electrical Distribution System, Reroute the Aboveground System Along Airport Road, Connect the Water Treatment Facility to the Power Grid Underground, and Provide New Modular Electrical Enclosure, Generator and Fuel Storage Tank Basis of Design Report Kalaupapa, Hawaii







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380 ft 190 1 inch = 392 ft. Scale 1:4,700

FIGURE Detail 2 SITE PLAN

Alternative - Upgrade Electrical Distribution System Reroute the Aboveground System Along Airport Road Connect the Water Treatment Facility to the Power Grid Underground, and Provide New Modular Electrical Enclosure, Generator and Fuel Storage Tank. Basis of Design Report Kalaupapa, Hawaii



Potential Alternatives



Rehabilitate the Existing Electrical System Alternative (continued):

- The existing water pump house generator and auxiliary equipment are old, in poor condition, and have reached their end of service life. To connect the water pump house and backup generator <u>locations</u> to the rehabilitated electrical system, this alternative would also:
 - Remove the diesel generator, fuel tank, and backup power generation equipment and demolish existing structures down to the concrete pads
 - Install the new power supply equipment and outlet to the existing backup generator
 - Install 2 new poles with cross arms, insulators, and hardware in existing pole locations near the east end of the settlement
 - Bury cable underground, starting at the east end of the settlement adjacent to the existing water line utility trench in the road corridor

Upgrade Electrical Distribution System, Reroute the Aboveground System Along Airport Road, Connect the Water Treatment Facility to the Power Grid Underground, and Provide New Modular Electrical Enclosure, Generator and Fuel Storage Tank.

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Basis of Design Report

Kalaupapa, Hawaii



420 ft

1 inch = 433 ft. Scale 1:5,200

named "KALA_utilities.dwg" 2. Source: 1983, Reconstruct Water System Dwg,

Sheets 10 & 11

le Replace Pole & Pole Mounted Transformer 💶 Existing Water Line²

Upgrade Electrical Distribution System, Reroute the Aboveground System Along Airport Road, Connect the Water Treatment Facility to the Power Grid Underground, and Provide New Modular Electrical Enclosure, Generator and Fuel Storage Tank.





Additions & U

Add	itions & Upgrades- Electrical Line System	- New Above Ground Line
0	New Pole	
۲	Replace Pole	
	Remove Pole	Remove Cabling
0	Replace Pole Mounted Transformer	- Existing Water Line 1
0	Replace Pad Mounted Transformer	- • Existing Water Line ²
۵	Replace Pole & Pole Mounted Transformer	2- 100 Contour

No	tes:
1.5	Source: unknown date, NPS-provided CAE
nar	med "KALA_utilities.dwg"
2.5	Source: 1983, Reconstruct Water System
She	pets 10 & 11

und Line



FIGURE - Zoom 3 DEMOLITION PLAN Alternative - Upgrade Electrical Distribution System, Connect the Water Pump House to the Power Grid Underground, Airport Rd. Reroute, and Construct a New Water Pump Building Basis of Design Report Kalaupapa, Hawaii



The Planning Process



- The public scoping comment period represents the first opportunity for the public to be involved in the planning process.
- Once NPS has gathered input on the proposed action, preliminary alternatives, and potential impacts associated with the proposed action, it anticipates moving on to the environmental assessment (EA) phase of the project.
- The park also welcomes comments during this period about potential effects to historic properties to assist in compliance with Section 106 of the National Historic Preservation Act.
- A second opportunity for public comment on the project will be provided upon publication of the EA.

The Planning Process





How to Comment

- On the web (preferred method) at: https://parkplanning.nps.gov/KALA
- By email at: KALA_consultation@nps.gov
- By mail:
 - Rehabilitate and Upgrade the Existing Electrical System EA Superintendent Erika Stein Espaniola P.O. Box 2222 Kalaupapa, HI 96742
- The public scoping 45-day period <u>starts</u> December 15, 2020 and <u>ends</u> on January 29, 2021.

Q&A



Questions?

<u>Reminder</u>: Please enter questions in the Q&A box.

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Thank You!



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