



23 January 2016

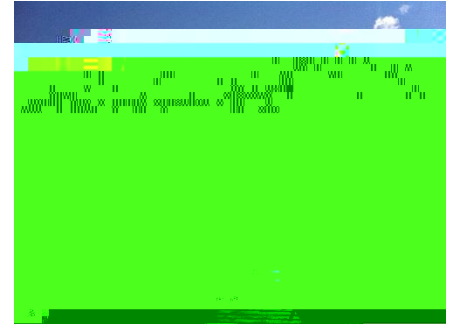
# Overview:

Science Construction, Boardwalks & BLM Permits



← Science Construction

Boardwalk →



← Permitting







Imnavait Boardwalk Replacement:  
500 ft, 2' -wide Tommydock

Welker Grid



Possible Removals to look at for 2017:



# Facilities Upgrades Schedule

## Completed Work

Dining Facility - 2010

Cotton Grass Upgrades - 2012

Garage, ATCO Berthing (8 Room, 16 Bed) Waste Heat, and Labs 6 & 7 Start Up - 2015

## Proposed New Lab

2014 Bids for Current Design





# Facilities Upgrades Schedule

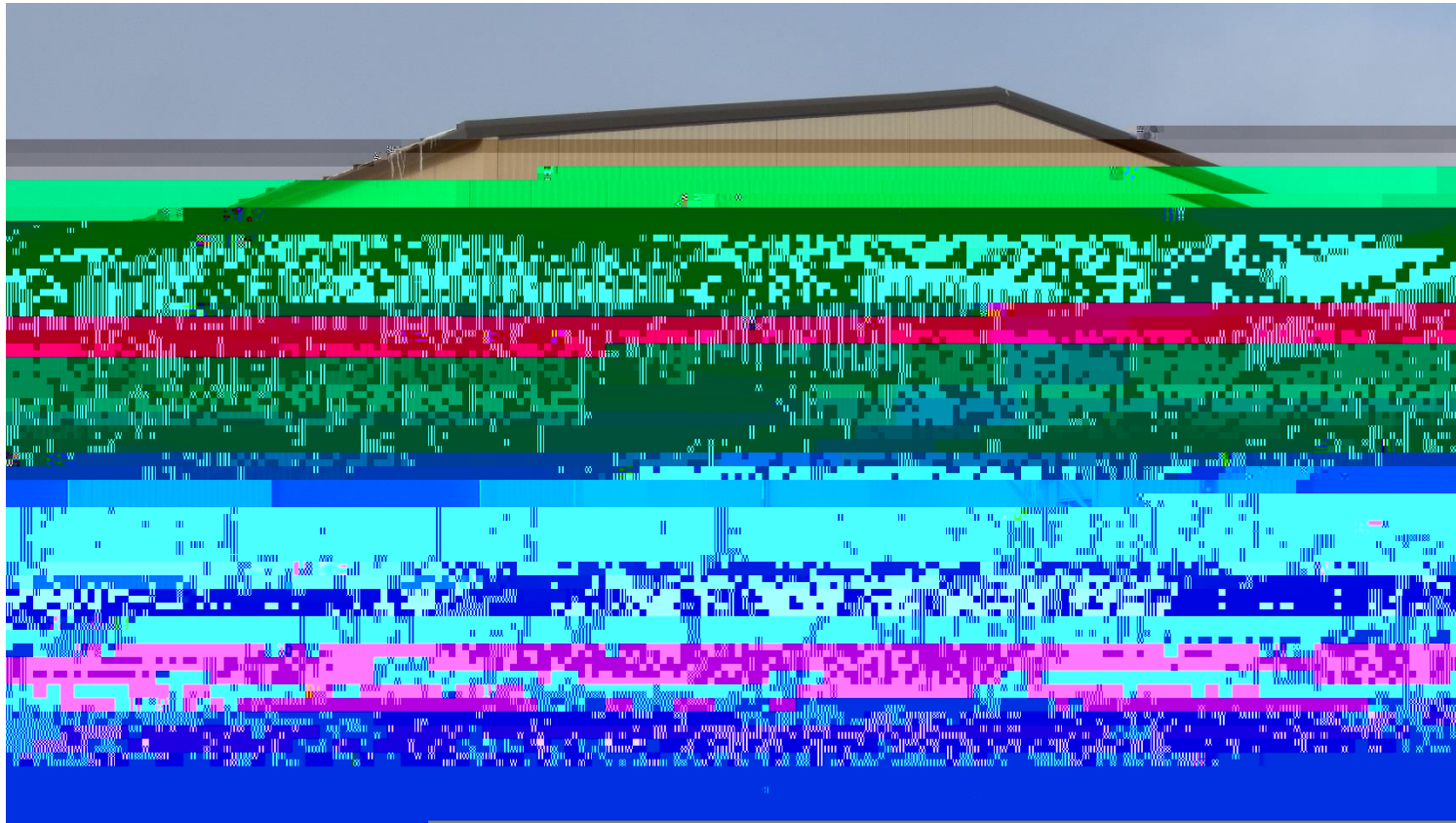
The main content of the slide is obscured by a large black rectangle. The visible header information includes:

- Facility Upgrades Tool - 1519
- Date: Date: 25-Dec-15
- Printed: 23-Jan-16





# 2015 Construction – Garage





---

# 2015 Construction – Garage

Project completed safely

- No injuries

- Passed safety audit

Ahead of schedule

- Original demobilization schedule October 5th, actual September 20<sup>th</sup>

- Occupancy date September 17th

Under Budget

- By about \$55K

- Change order rate 0.38% (that's really good)



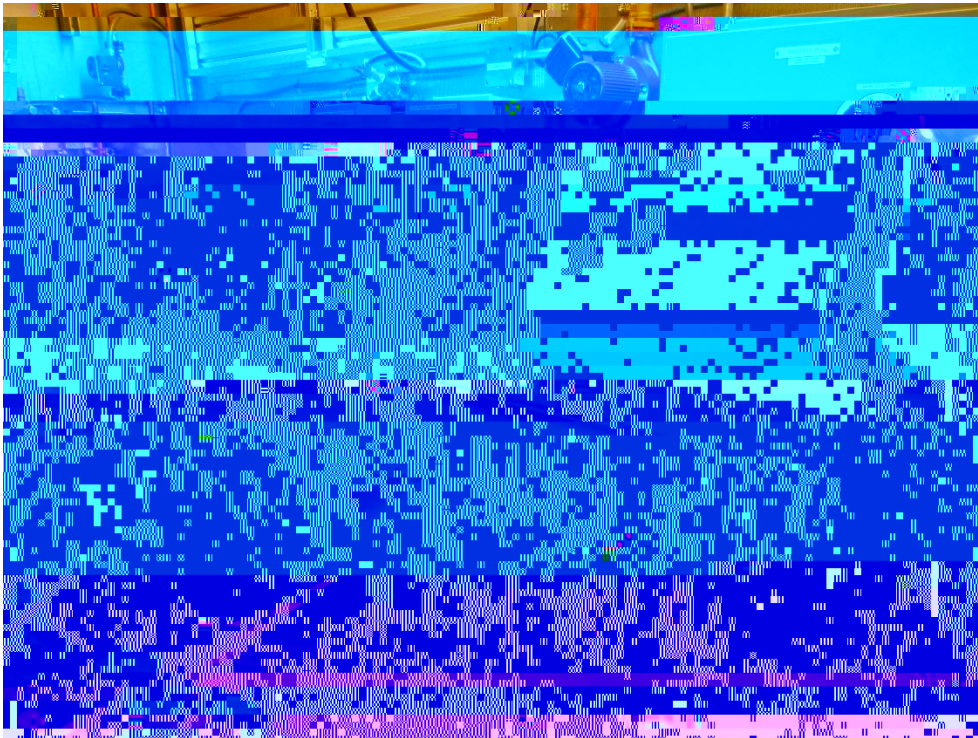


# 2015 Construction – Garage





# 2015 Construction – Waste Heat Recovery





---

## 2015 Construction – Waste Heat Recovery

Captures heat from coolant of the running engine, transfers to system loop

System loop provides heat to Garage, Gen Modules and offline engine block heaters

System on line September 17, 2015

Reduced electrical load from radiator fans, heaters

Working through final punchlist items





---

## 2015 Construction – Labs 6/7

Connected to water distribution system

Installed & connected wastewater tank

Installed & connected fuel tank

Install power meters

Constructed entry stairs and landings

Repaired flooring



# Well House Upgrades





---

## 2016 Facility Upgrade Projects:

### Waste Heat Recovery Punch list

- Ø Pipe Insulation Completion
- Ø Connect engine block heaters to waste heat

### Fiber Optic Conduit (Phase 3)

- Ø Dining Facility to Winter Quarters and Cotton Grass

### Waste Heat to Emergency Generator

- Ø Connect emergency generator block heater





---

## 2016 Facility Sustaining Projects:

### Relocate Vehicle Tent (formerly Loader)

- Ø Will be moved next to the Garage

### Relocate Snowmachine Shop

- Ø Will be repurposed as HAZMAT storage

### Dining Facility

- Ø Gravel Pad Assessment - Civil Engineer will assess and provide recommendation
- Ø Install waterless urinal
- Ø Install alarms for the walk-in Freezer and Cooler





---

## 2016 Facility Sustaining Projects Continued:

### Electrical Projects

- Ø Incubation Facility Outlet relocation
- Ø PLC power and enclosures for Incubation Facility, LAB 1, 2, and 3
- Ø Provide power to CONNEX 8
- Ø Power Meters for the Boat Dock and Conde Hut

ATCO 5 and 6 deck

Well House Chlorine Contact Chamber repair





---

## NEON

Provide Electrical Service Drop

Ø Located North of D-Shack A

Ø Will have Power Meter and a Disconnect Switch for NEON to tie into



# Long Range Facilities Plan – Update

Version 1 is dated March 2013

Working on Version 2



# Long Range Facilities Plan – Update

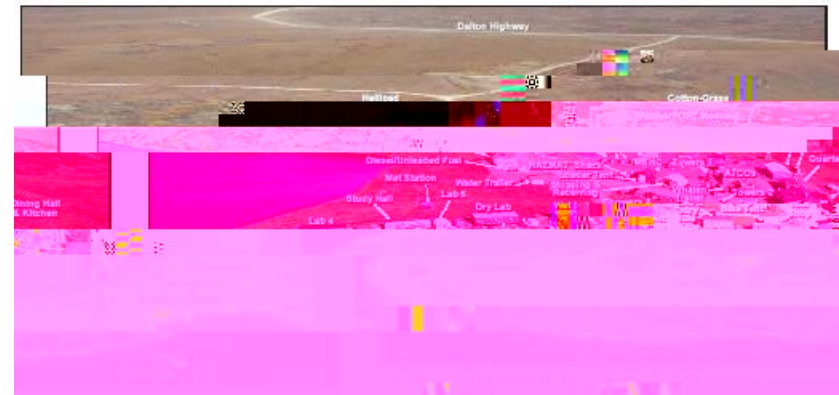
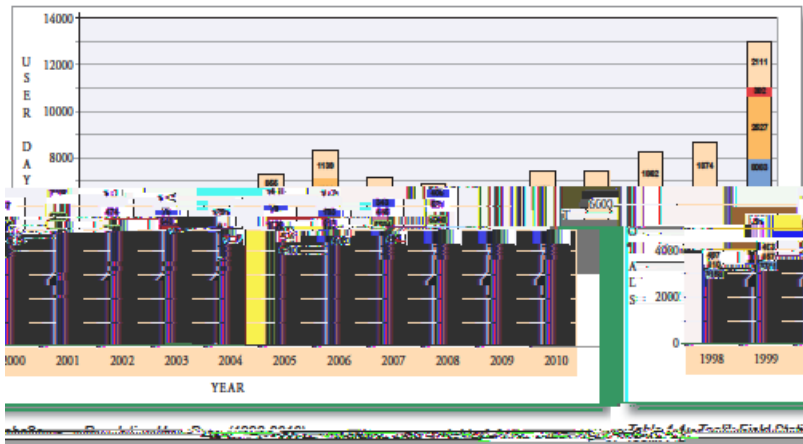
## Additions to Chapter 1 – Introduction & Timeline





# Long Range Facilities Plan – Update

Updated User Day data, photos



# Long Range Facilities Plan – Update

- Review Vision, Goals and Guiding Principles

- Update Infrastructure & Utilities section to include new construction

- Update Utility Corridor Map

- Confirm Site Development assumptions and constraints

  - Functional relationships, land use planning

  - Impacts on research

  - Update site maps







---

# Long Range Facilities Plan – Update

## Update Development Plan

Confirm facilities to be relocated, retained or removed

Update Map

## Sustainability

Review and confirm priorities

## Design Guidelines

Update as needed



# Long Range Facilities Plan