Toolik Field Station
Long Range Facilities Plan
Science Support Vision Workshop
August 2012
LRFP Timeline and Status

• In development since 2009
• Draft Final document distributed 2011
• Feedback received from stakeholders
• Final review/approval underway
• A “Living Document”, revised as necessary in the future
Why “Finalize” the LRFP?

• Environmental Assessment (EA) required for new construction
  • EA must reference a comprehensive document for site development (eg – LRFP)

• Planning and funding for large capital projects requires long lead times

• Demonstrates a strategic vision and plan in the event new funding comes available
Capital Project Categories

• Residential
  • Dorm
  • Bungalow

• Science
  • Laboratories
  • Lecture Hall
  • Workshop

• Site/Support Infrastructure
  • Garage
  • Generator Waste Heat Recovery
  • Road Lift/Realignment
Capital Project Approach

- **Residential**
  - Dorm *New Construction*
  - Bungalow *New Construction*

- **Science**
  - Laboratories *New Construction*
  - Lecture Hall
  - Workshop

- **Site/Support Infrastructure**
  - Garage *New Construction*
  - Generator Waste Heat Recovery *New Construction*
  - Road Lift/Realignment *New Construction*
Capital Project Approach

• Residential
  • Dorm *New Construction*
  • Bungalow *New Construction*

• Science
  • Laboratories *New Construction*
  • Lecture Hall *Repurposed Facilities*
  • Workshop *Repurposed Facilities*

• Site/Support Infrastructure
  • Garage *New Construction*
  • Generator Waste Heat Recovery *New Construction*
  • Road Lift/Realignment *New Construction*
TFS Long Range Facilities Plan

- New
- Repurposed
Initial Capital Projects

- **Dorm A**
  - Two-story. Two wings. 24 rooms per wing. Total of 48 rooms. Two bed spaces per room = 96 potential bed spaces. Year-round capable
  - Central common areas (core) on both floors

- **Garage**
  - 3-bay. 2300 ft2. Year-round.

- **Lab**
  - Requirements still to be defined

- **Waste Heat Recovery**
  - Generator waste heat used for Garage heating
Dorm
Garage

SOUTH ELEVATION
Bungalow
## Initial Capital Project Timeline

<table>
<thead>
<tr>
<th>Project</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>Beyond</th>
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<tbody>
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<td>Dorm A</td>
<td>Design</td>
<td>Site Prep</td>
<td>Construction</td>
<td>Bungalow</td>
</tr>
<tr>
<td>Garage</td>
<td>Design</td>
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<td>Construction</td>
<td></td>
</tr>
<tr>
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<td>Construction</td>
<td>Lab 8</td>
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<td>Waste Heat Recovery</td>
<td>Design</td>
<td>Complete</td>
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**Notes:**
- **Bungalow** indicates completion.
- **Lab 8** indicates ongoing or upcoming projects.