High Bay and Engineering Building Projects Status

UW Board of Trustees Meeting
7 May 2014
Presentation Outline

• Key Project Structures
• High Bay Research Facility (HBRF) Status
• Engineering Building (EB) Status
Engineering Initiative Facilities (EIF) Work Breakdown Structure (WBS)

*Unified project management processes implemented for both projects, with separate scope, schedule, and budget definition and management for each construction facility/building*

### EB STATUS
- Integrated space and CEAS departmental space needs reviews underway – May 2014 completion
- Level I Planning completion and presentation to WGEESIT – end of June 2014

### HBRF STATUS
- Schematic design underway – planned completion early June 2014
- CMAR selection process initiated 4/15/14 – selection completion and presentation to BOT mid-June 2014
- Commissioning Agent (CA) selection process for HBRF and EB launched 4/29/14

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**1 Engineering Initiative Facilities (EIF)**

1. **High Bay Research Facility (HBRF)**
   - **1.1 HBRF Project Management**
   - **1.1.1 HBRF Project Management**
   - **1.1.2 HBRF Design**
   - **1.1.3 HBRF Construction**
   - **1.1.4 HBRF Commissioning**
   - **1.1.5 HBRF Operations Prep.**

2. **Engineering Building (EB)**
   - **1.2 EB Project Management**
   - **1.2.1 EB Project Management**
   - **1.2.2 EB Design**
   - **1.2.3 EB Construction**
   - **1.2.4 EB Commissioning**
   - **1.2.5 EB Operations Prep.**
# HBRF Construction Project Budget

<table>
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<tr>
<th>Private Sector</th>
<th>$10.6M</th>
<th>$4.4M</th>
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<td>State Match</td>
<td>$15.0M</td>
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<td><strong>TOTAL:</strong></td>
<td><strong>$25.6M</strong></td>
<td><strong>$4.4M</strong></td>
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*Design, construction, and commissioning of HBRF core and shell to be completed within total budget of $25.6M.*

*Laboratory fit-up costs (e.g., construction beyond core and shell, specialized equipment, etc.) to be met using additional funding.*
Detailed HBRF Construction subschedule to be developed by UW project team members, selected CMAR, and HBRF design team.
SD Work Session 1 (5/6/14): Preferred Design Option
Requirements-based Project Model

2. Engineering Initiative Implementation Plan
3. Engineering Initiative Facilities (EIF) Project Execution Plan (PEP)

- Strategic Requirements
  - Highest level (overarching) requirements

- Functional Requirements
  - Definitional requirements for EI facilities (HBRF and EB) – Level I

- Technical Requirements
  - Detailed requirements to emerge from Schematic Design (SD) and Preliminary Design (PD) – Level II
From Strategic EI Requirements to EB Functional Requirements

Strategic Requirements
- Define areas of excellence
- Improve integration across colleges and facilities
- Enhance undergraduate curriculum
- Improve the number and quality of faculty and students
- Build world-class research capabilities that will have a significant impact on Wyoming and the nation and will enrich student mentoring
- Invest in cutting edge R&D equipment needed to support initiative programs
- Develop partnerships with the state, national agencies, and industry to actualize research findings and catalyze economic development in Wyoming
- Improve connections with alumni and other constituencies

Functional Requirements
- Flexible/reprogrammable spaces
- Collaborative research areas
- Instructional laboratory spaces
- Core lecture halls
- Common student areas
- Collaborative work areas
- CEAS departmental offices
Completion of EB Level I Planning

• Structured to ensure adherence to a total EB construction project budget of $110M.
  – Budget includes design, construction, commissioning, and project administrative costs (geotechnical work, furnishings, etc.)

• Prioritization approach being used that focuses on:
  – Identification of required spaces and priority ranking of each
  – Cost estimation of prioritized spaces using collected space estimates (sq. ft.) and construction cost ($/sq. ft.) data

• EB Level I Planning Summary to include final priority matrix and space needs targeted for delivery within $110M project budget.
  – To be presented to WGEESIT during 23-24 June meeting
## EB Status and Two-Month Timeline

### High-level schedule outlook (current proposed):

**Design:** Summer 2014 – Summer 2015  
**Construction:** Summer/Fall 2015 – Fall 2017

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<th>ID</th>
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<th>WBS</th>
<th>Task Name</th>
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<th>Duration</th>
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Questions