Executive Program Review March 2012

Alvin Upgrade Project
# Executive Program Review March 2012

## Target Schedule

<table>
<thead>
<tr>
<th>Task Name</th>
<th>2012</th>
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<tbody>
<tr>
<td>Launch &amp; Recovery System Mods II</td>
<td>10/11</td>
</tr>
<tr>
<td>LARS Classification</td>
<td>10/11</td>
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<tr>
<td>AVN Mods and Overhaul</td>
<td>7/16</td>
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<tr>
<td>Frame Modified and Delivered</td>
<td>7/23</td>
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<tr>
<td>Sphere Fabrication &amp; Assembly</td>
<td>6/18</td>
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<tr>
<td>Sphere Hydrostatic Test</td>
<td>7/16</td>
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<tr>
<td>Sphere Delivery</td>
<td>10/20</td>
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<tr>
<td>Vehicle Assembly</td>
<td>11/2</td>
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<td>Systems Testing</td>
<td>11/30</td>
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<td>Dock Trial</td>
<td>12/5</td>
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<td>Sea Trial - Classification/Certification</td>
<td>12/28</td>
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<tr>
<td>Overhaul</td>
<td>10/11</td>
</tr>
<tr>
<td>Frame Modified and Delivered</td>
<td>7/2</td>
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Legend:
- Green: System Mods II
- Pink: Sphere Fabrication & Assembly
- Blue: Sphere Hydrostatic Test
- Yellow: Frame Modified and Delivered
- Light Blue: Systems Testing
- Orange: Sphere Delivery
- Pink: Vehicle Assembly
- Cyan: Dock Trial
- Light Cyan: Sea Trial - Classification/Certification
Launch and Recovery System Status

Upgrades Completed:

- A-Frame upgraded
- Deck reinforced under tracks
- Tested to 50,000 lb rating

Upgrades to Complete:

- Swinging Beam Assembly
- Reinstall, integrate and test the swinging beam and controls
- ABS Classify the Launch and Recovery System (LARS)
- NAVSEA certify select system attributes

Installing the A-frame March 2011
Schedule

- Begin swinging beam modifications
  - Oct 2011
- Interagency communication from NAVSEA to NSF on Certification/Classification Requirements
  - Oct 2011
- Deliver modified swinging beam and controls
  - Jun 2012
- Reinstall swinging beam and test
  - Aug 2012
- Integrate LARS with R/V Atlantis
- Complete ABS Class & NAVSEA Cert process
  - Oct 2012
Static Weight Test, 200% of Rated Load BAE JAX April 2011
Meet WHOI sailing schedule for Dec 2012

- Start hydro early June, Deliver to WHOI early July
  - Accept opportunities to improve the schedule
- Frame delivery for mid-July
  - Select low risk alternatives for progress on the frame
- WHOI meet ECA submittal dates
- LARS classification/certification in early October
• WHOI proceed with low risk alternatives
  – Identify low risk alternatives and communicate the risk level and consequences
  – Examples:
    • NDT the frame prior to design approval
    • Begin frame member fabrication prior to design approval

• ABS and NAVSEA expedite reviews and approvals
  – Reduce review process to 4 weeks or less
  – WHOI accelerate development of documentation