### Mission Success Bulletin

**Director of Communications:** Marion LaNasa

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#### Space Shuttle schedule

<table>
<thead>
<tr>
<th>Mission</th>
<th>Launch Date</th>
<th>Landing Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS-129</td>
<td>11/16/09</td>
<td>11/27/09</td>
</tr>
</tbody>
</table>

#### Milestones – Employee anniversaries

<table>
<thead>
<tr>
<th>Employee Name</th>
<th>Years of Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noel DeBose</td>
<td>30 Years</td>
</tr>
<tr>
<td>Troy Smith</td>
<td>30 Years</td>
</tr>
<tr>
<td>Griffen Aucoin</td>
<td>30 Years</td>
</tr>
<tr>
<td>Shawn Maheia</td>
<td>30 Years</td>
</tr>
<tr>
<td>Charmaine Lemaire</td>
<td>30 Years</td>
</tr>
<tr>
<td>Reginald Williams</td>
<td>30 Years</td>
</tr>
<tr>
<td>Michelle Worden</td>
<td>5 Years</td>
</tr>
</tbody>
</table>

#### ET Incentive Plan milestones

- **January 2010**: ET-136
- **February 2010**: ET-137
- **March 2010**: ET-138

#### Orion Manufacturing Team welcomes 2010 challenges

- The team is committed to maintaining its high standards while facing new challenges.

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#### Michoud Operations to build crew environment unit simulator

- The team is building a crew environment unit simulator for the Orion program.

#### Three cited for safe work behavior

- Williams winner for quarter
- Troxell winner for quarter
- Aucoin winner for quarter

#### Michoud Operations

- **Barrel panels using friction and friction stir welding**: Ares I instrument unit simulator will be used in the Service Module/Electric Propulsion module of the Orion spacecraft.
- **Cylindrical instrument unit**: The cylindrical instrument unit is approximately 7 feet long, 18 feet in diameter and includes a representative Upper Stage engine for the Orion spacecraft.
- **Friction Stir Welding**: Friction Stir Welding joins two LH2 longitudinal barrel panels, 52 feet long, located at 270 degrees. The process results in welds with increased tensile strength and fracture toughness. Weld applied pressure to plasticize the metal and join the LH2 longitudinal barrel panels together.

#### Ares I Instrument Unit Simulator

- The simulator project requires Engineering support from the Advanced Manufacturing at Michoud.

#### Orion Manufacturing Team

- **Operational Excellence and process improvement**: Operational Excellence and process improvement have been focused on improving the manufacturing process for the Orion spacecraft.

#### Endurance Test

- **Three cited for safe work behavior**: Employees are being recognized for their safe work behavior.

#### ET Incentive Plan

- **Milestone**: Milestone – ET Incentive Plan milestones

#### STS-130

- **STS-130 will also be the 130th shuttle mission**: Michoud workers have constructed two-thirds of the Space Shuttle Atlantis. The team is committed to completing the project on time.

#### Test Article

- **30 Years**: The test team’s goal is to assure that when the CM GTA undergoes Non-Destructive Evaluation on the welds after testing under acceptance is complete, the GTA will undergo Non-Destructive Evaluation on the welds after testing under acceptance is complete.

#### Test Data

- **Data**: Test data will be fed into the final vehicle design. The GTA will undergo Non-Destructive Evaluation on the welds after testing under acceptance is complete.

#### Test Article Evaluation

- **Evaluation**: The test team’s goal is to assure that when the CM GTA undergoes Non-Destructive Evaluation on the welds after testing under acceptance is complete, the GTA will undergo Non-Destructive Evaluation on the welds after testing under acceptance is complete.

#### Potential Hazards

- **Potential Hazards**: Potential hazards include equipment failure, human error, and environmental conditions.

#### Quality Control

- **Quality Control**: Quality Control is notified of any potential hazards, and the team takes necessary precautions.

#### Customer Focus

- **Customer Focus**: Customer focus is key for us this year. We have plenty of work to do, and we want to do this work with the same amount of quality that we always instill.