Space Systems Company – Michoud Operations

Mission Success
Bulletin

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October 5, 2006
on-line
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Manny Zulueta assumes helm as Michoud Operations VP

John Karas, Space Systems vice president for Human Space Flight, visited Michoud earlier this week to introduce a new leader for Michoud Operations. To a crowd of 200 in the NASA Auditorium, Karas admitted that he had spoken with both candidates and customers to identify the right leader to transition Michoud from a single product-single program to multiple products across diverse programs.

"We needed someone with vision and a lot of experience who would mold Michoud in transition, someone to execute on the ET program and bring in new business to prepare for the future," said Karas.

That someone is **Manny Zulueta**, vice president and site executive for Michoud Operations.

Zulueta is a graduate of Brown University and holds a masters in Material Engineering from the Massachusetts Institute of Technology. He spent a significant amount of his early career with GE Aerospace prior to joining Lockheed Martin. Most recently, he served as senior vice president, Shared Services at Lockheed Martin corporate headquarters.

"I am thrilled to be here," said Zulueta at his first appearance at Michoud. "I'm really looking forward to being here and building the future of Michoud, to see what we can do together to create some exciting new opportunities."

Manny Zulueta

Zulueta is committed to building an environment where people can succeed and reach their full potential.

"At the end of the day, it's all about the people," he said. "I believe in getting inputs from a number of people. There is a process to making a decision, and sometimes you need to let the process work. If your can adapt your style to the circumstance, things turn out better."

Karas describes Zulueta as an individual with a wealth of knowledge in production, operations and engineering, and with the ability to share significant corporate lessons learned.

These will all prove invaluable as Michoud Operations and the Space Systems Human Space Flight Line of Business pursues billions of dollars in new business over the next 12-18 months to go along with the Crew Exploration Vehicle and Commercial Orbital Transportation Systems wins of the past six weeks.

"I've always been an admirer of yours from afar," noted Zulueta, "and I'm looking forward to working with this great group of people at Michoud." ■

United Way

Michoud Operations
2006 Campaign
October 23 – November 4

Coast Guard interim facility to begin operations

The United States Coast Guard Integrated Support Command (ISC) New Orleans will officially open for business at the Michoud Assembly Facility with a dedication ceremony scheduled for October 6.

Construction of the interim modular base began in April on a 16½-acre site near the intersection of Mercury Drive and Saturn Boulevard near the west side of the facility.

"We've been waiting for 13 months to move into our new facility," said Commander **Patrick Flynn**, executive officer, ISC New Orleans. "We finally have space to spread out and to stretch out our arms and legs - it gives us some sense of normalcy."

Commander Patrick Flynn points out the medical building that is nearing completion.

Cmdr. Flynn arrived as the number two man at the ISC last July, just in time to evacuate for Katrina.

The hurricane devastated the Command's seven-acre location on the Industrial Canal and caused its personnel to find temporary quarters at other installations.

The ISC is home to six tenant commands, which include Naval Engineering Support Unit New Orleans, an Aids to Navigation Team, the CG Cutter *Pamlico* that will berth at Michoud Harbor, Electronics Support Unit, Electronics Support Detachment, and the Gulf Regional Fisheries Training Center.

"Their services support Coast Guard units from Pensacola to Brownsville, Texas and include financial, engineering, human relations and medical," Cmd. Flynn added.

By the end of the year, the ISC will be the post for about 300 personnel. Up to 90 of the single, enlisted personnel will live in on-site dormitories at Michoud.

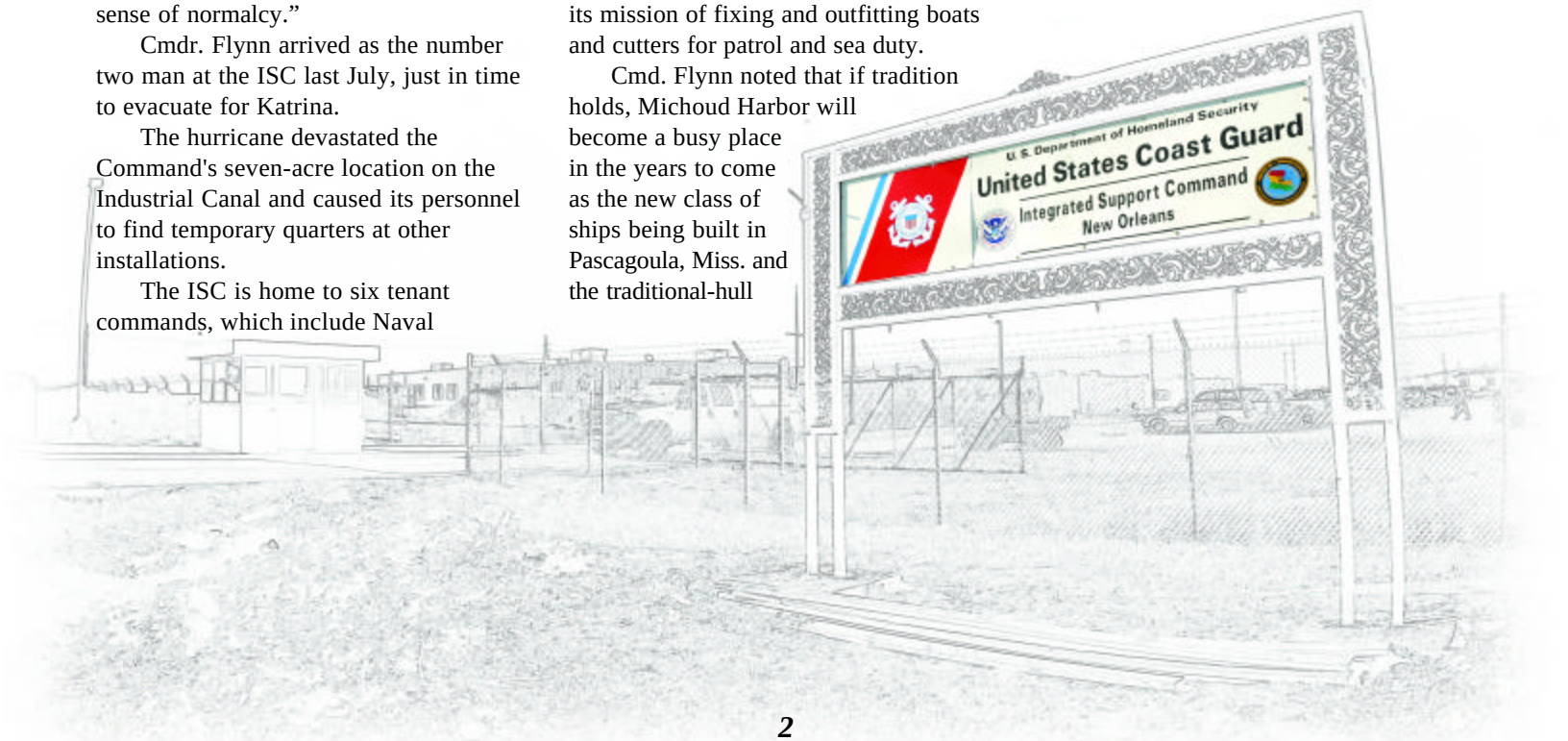
The Command will also occupy part of the harbor master building to continue its mission of fixing and outfitting boats and cutters for patrol and sea duty.

Cmd. Flynn noted that if tradition holds, Michoud Harbor will become a busy place in the years to come as the new class of ships being built in Pascagoula, Miss. and the traditional-hull ships being built in Lockport, La. will come here for final work and modification.

To support the dock-side operations, the Coast Guard has plans to construct a new pier, and buildings to house the industrial shops.

Commander Flynn talks with FS3 John Ross about the new kitchen equipment.

And that's not all. Within the next year, the ISC plans to break ground further west of the interim installation for a permanent facility that is projected for completion in 2009. ■



Whole lotta moving going on across facility

Michoud Operations wasted no time launching large-scale office moves after its recent *Orion* and Commercial Orbital Transportation System (COTS) wins. The goal is to accommodate the new programs and their staff, and to make way for future tenants.

The victories coincide with earlier NASA plans to transition the Michoud Assembly Facility into a multiple-program campus. Over the past two weeks, a number of Orion employees have been moved to areas in Buildings 101 and 102.

Renovations to these specific office areas commenced months ago as part of NASA's work-share office plan. In all, approximately 100 *Orion* employees will occupy the work-share space by the end of the year.

"The office moves are vital to meeting NASA's Vision for Space Exploration," explains **Keith Savoy**, associate manager, Facilities & Environmental Operations. "We must make way for new business and new programs to allow Michoud to prosper."

In addition, NASA has relocated its entire on-site staff to two buildings. Personnel related to facility operations moved from Building 350 to Building 320 near the new Incident Command Center.

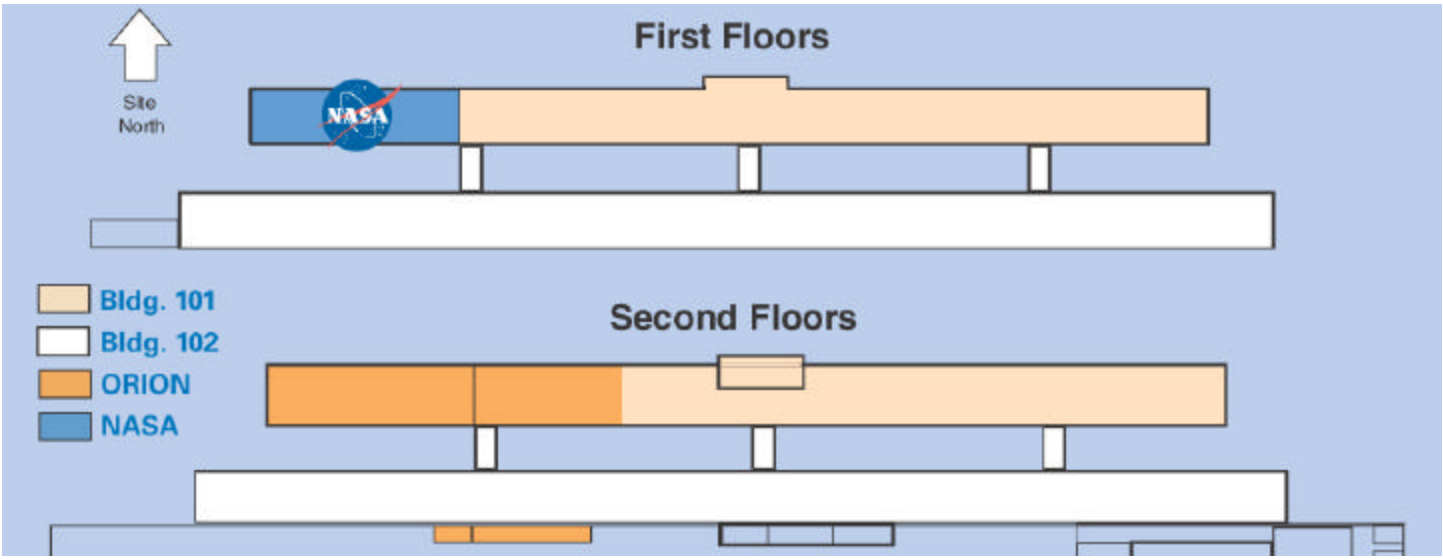
NASA External Tank personnel are in the process of moving from Building 350 to a newly renovated portion of Building 101. This repositioning pro vides space for potential new business tenants in Building 350 in the area vacated by NASA.

A lobby view of the new NASA ET Project office in Building 101.

The office relocations are benefiting more than just the new programs. Work-share office space in Buildings 101 and 102 are being made available by moving various Facilities & Environmental Operations groups into a common area on the South Mezzanine of Building 103. Here, the groups can better interact within their directorate, facilitating improved planning and communications on their projects.

"These are by far the largest office moves we have made in 15 years," says **Carl Mundell**, project manager, Facilities & Environmental Operations. "With just the ET in house, there was never the need to consolidate groups to this level."

In the near future, new office areas will be defined to house COTS and Advanced Program personnel. ■



Wood promoted to director

Malcolm Wood has been named director, Facilities & Environmental Operations. Previously, he served as senior manager, Critical Operations & Maintenance.

Joining Lockheed Martin in 1977, he has held positions such as plant superintendent; manager, Facilities Project Management; and senior manager, Facilities Planning. He has significant experience in operations and maintenance, resource planning and management, long range planning, strategic planning, personnel management, audit responsibilities, productivity and process improvements.

Malcolm Wood

A native of Tylertown, Miss., Wood served in the U.S. Navy and earned a bachelor's degree in Computer Science and Engineering at the University of Southern Mississippi.

He has served on the White House Fellows Panel for Leadership. He also led the Hurricane Katrina Ride-Out Crew and received the NASA Exceptional Bravery Medal along with other members of the team. ■

A resource for employees and family members to see information about rebuilding the New Orleans region at lockheedmartin.com/maffamily

ET-123 & ET-124 pointing toward December

Hoisted in its checkout cell inside the Vehicle Assembly Building at Kennedy Space Center, External Tank-123 continues to undergo processing prior to its planned mate with the Solid Rocket Boosters on October 13.

ET-123 is then scheduled to mate with Orbiter *Discovery* on November 1, a date under review, followed by a roll to the pad on November 8.

NASA also has moved *Discovery's* launch date up to December 7 and removed the daylight-only launch restriction for STS-116. Liftoff is set for 8:38 p.m. CST with a launch window extending through December 26.

Back at Michoud, ET-124 – the STS-116 launch on-need tank – moved from Final Assembly, Position 1 into Building 420, Cell 2 on Saturday. Work is under way to remove and replace the gaseous oxide diffuser. Preparations continue for longeron BX265 foam spray activity with final primer review and application in work.

Technician Theresa Rivera kneels to work on ET-124's manhole cover .

Previously, technicians removed the Protuberance Airloads (PAL) ramps on the Liquid Oxygen Tank and Liquid Hydrogen Tank down to one inch of base foam.

Processing continues with the careful removal of that remaining inch of foam and conathane line. After final foam and conathane are removed, the "footprint" area can be assessed for acceptability of application of Ice Frost Ramp extensions.

The Intertank access kit has been installed and mechanical technicians are drilling holes to mount the camera harness installation inside the Intertank. Technicians will soon start drip lip trims.

ET-124's delivery date to NASA is December 17. ■

Roll back the clock, roll in the energy savings

October is Energy Awareness Month at Michoud. When rolling back your clock for daylight savings time on October 29, think about ways you can roll in the savings.

"You have the Power" is this month's Energy Awareness theme. The fall/winter seasons are traditionally a period of lower energy consumption. This presents a window of opportunity for Michoud because one person's actions can have a ripple effect when it comes to energy savings.

Start by being energy conscious at home, and then you can bring that awareness to the job as well to help reduce energy costs for yourself and our NASA customer.

The NASA/Lockheed Martin Energy Cost Reduction Program (ECRP) has made a strong commitment to energy conservation and over the years has achieved significant reductions in energy consumption at Michoud.

The success of ECRP is the result of the people who work within the program and throughout the facilities. Michoud's Energy Conservation Committee (ECC) is the forum that brings all organizations together with one primary mission, energy conservation awareness.

The Energy Policy Act of 2005 dictates new energy management requirements and is targeting energy savings of ten percent in all Federal buildings by the year 2010. During an average year, Michoud consumes 136 million KWH of electricity – that's enough electricity to power 20,000 homes for one year.

The post-Katrina energy environment presents new challenges to Michoud. According to **Ernie Graham**, NASA ET Resident Office and ECC task force member, Michoud's current energy consumption costs are $1 million monthly despite the fact that the facility realized a nine percent decrease in energy consumption compared to past year.

"While usage is down, the price of energy has gone up," says Graham. "Collectively, we can help meet our energy goals by being good stewards of our energy conservation at work and at home."

During this month, everyone will be encouraged to adopt energy-savings ideas and encouraged to put those into action. A Michoud facility-wide task force will perform random energy audits in departments and individual work areas throughout the facility.

As part of their "Hog Catcher" energy consumption reduction program, ECC auditors will place "energy hog" tags at locations where lights, computer terminals and printers have been left on and
unattended.

"You wouldn't leave your lights on at home all day, if you're away at work would you?" **Katherine Boyea**, NASA Michoud Facilities Energy, Audit & Outage coordinator and chairperson for the ECC asks. "All it takes is one energy hog multiplied by a factor of 2,000 to ratchet up our energy consumption. You have the power to conserve energy where and when you can that can translate into huge savings to U.S. taxpayers."

Boyea adds, "Simple steps such as turning off your printer, office lights and computer whenever you leave your desk before lunch or after work can translate into huge energy savings for our facility."

This past year numerous improvements have taken place to address energy awareness facility-wide:

- upgrading obsolete light fixtures
- reducing lighting levels where possible
- task lighting for modular furniture
- making rounds to turn lights off during off-duty times

"Smart" Meters: to better track energy consumption on-site, Michoud will install 47 new "smart" meters in late-November. Each meter will hook into a computer on-site to monitor usage and record peak hourly and daily energy usage.

For more on energy savings tips, visit the ECC website at: http://maflm509.maf.nasa.gov/31xx/ECRP/ecc_home.htm ■

Energy-saving tips for you at home

Did you know that:

- Replacing a 100-watt incandescent light bulb with a 32-watt compact fluorescent light bulb can save you at least $30 in energy costs over the life of the bulb?
- Compact fluorescent bulbs use 70% less energy and provide the same amount of light?
- Heating and cooling account for 56% of energy use in a typical home, making it the largest energy expense for most homes? Make sure your A/C, furnace or heat pump receives professional maintenance each year. Look for the ENERGYSTAR label when replacing your system.
- Peeking into your oven when cooking can lower the temperature as much as 25 degrees each time you open the door?
- Pilot lights can account for up to 50% of the annual energy consumption of a gas range?
- Using fans during the summer can create a wind chill effect that will make your home more comfortable? If you use air conditioning, a ceiling fan will allow you to raise the thermostat setting about 4°F with no reduction in comfort.
- Installing a programmable thermostat can help you adjust the temperature according to your schedule?
- Insulating your hot water heater and hot water pipes will prevent heat loss?

Save the date! NASA Safety Day set for October 19

October is Safety awareness month at Michoud, and NASA Safety Day is slated for Thursday, October 19. A host of facility-wide awareness activities will focus on group discussions on how to strengthen safety communications and awareness as Michoud moves toward a multi-contractor site.

This year's theme is "Building Michoud's Future." Employee awards will be presented to individuals or groups who have demonstrated commendable actions relating to safety over the past two years.

As part of NASA Safety Day, employees will discuss accident/incident prevention both now and in the future that is relevant to their own work areas. Areas of focus will include outdoor potential hazards as well as general-everyday surroundings to build best safety practices and awareness.

"Safety day should be every day at Michoud," says **Steve Turner**, Safety manager. "That's the awareness goal we're striving for."

Throughout the month, employees are encouraged to brainstorm safety ideas and discuss them openly with management. Informal "huddles" also will take place throughout the facility to encourage the process of safety awareness.

Employees will be asked to brainstorm and answer the question: "What three things can we do to improve safety awareness as we move toward a multi-contractor site?"

The results collected in these huddles will be culled down to the top three topics and addressed at a company-wide leadership forum at noon on the 19th. Additionally, a series of safety videos will be broadcast on ETV at break-out meetings for all three shifts.

For more information on NASA Safety Day 2006, visit the safety website at http://omega.maf.nasa.gov/org/D3730/SafetyDay/Safety_Day_2006.ppt ■

Lockheed Martin recognizes employees for New Business achievement

Lockheed Martin has won a significant amount of New Business at Michoud the past two months. In a special reception Monday night, the company expressed its thanks to key employees who contributed to several projects – the Crew Exploration Vehicle proposal, the Commercial Orbital Transportation Services contract and the Goodrich work at the National Center for Advanced Manufacturing.

Jim Bray, Michoud CEV program manager, poses next to a graphic that depicts* Orion *preparing to dock at the International Space Station.

Manny Zulueta, Michoud's new vice president & site executive, talks with Bob Simms, K-1 program manager and Randy Tassin, vice president, Program Management & Technical Operations.

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