



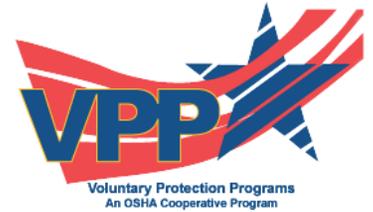
# Langley Safety and Occupational Health

Patricia G. Cowin, CIH, CSP

February 2, 2006



# Agenda

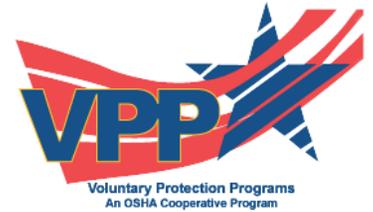


- What's New
- Safety Challenges
- Occupational Health/Fitness
- Emergencies & Disasters:  
*Planning & Procedures*





# What's New



- Changing mission focus and budget cuts
  - Staff reductions/re-assignments
  - Loss of “corporate knowledge” ex: Compressor Station Mishap
  - Processes must be thoroughly documented
- New Safety Manager at LaRC





# What's New



- LaRC is reducing it's footprint
  - Building closures
  - Land/building leases to Air Force



- Increased Safety Program demands at LaRC as we look to “leaner” Center  
Building closures = HAZMAT surveys



# What's New



- Supervisor Safety Inspection System

- Web based

- Monthly

- <60% participation

- Perceived problems

- Frequency

- Duplication of effort

- Complexity of inspection form

- Lack of funding

- In process of addressing concerns

Supervisor Safety Inspection System

[Main Menu](#) | [Reports](#) | [Change Password](#) | [Request Supervisor Change](#) | [SSIS Help](#) | [Logout](#)

Enter New Inspection Results

All of the fields highlighted in blue and prefixed with (R) are required.

**Only one inspection per organizational code is to be entered each month. All buildings inspected should be combined onto one inspection. In facilities where there are both industrial work areas and office areas enter the inspection as an industrial area checklist.**

(R) Select Org Code: C2

(R) Select Checklist: Office Work Area Inspection (LF 217)

(R) Select Month: (empty)

(R) Date Performed: (empty) (mm/dd/yyyy) [View Calendar](#)

(R) Facility: B1232, 2nd Floor

(R) Facility Safety Head: Harold Beazley

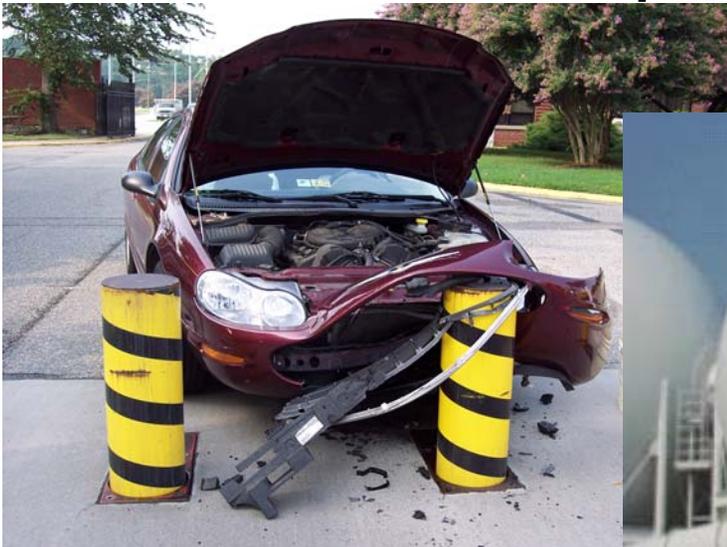
Attendees: (empty)



# Safety Challenges

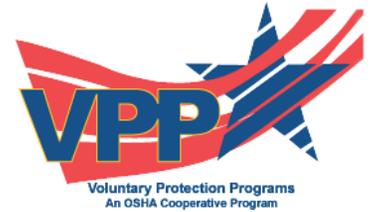


- Arc Flash
- Pressure Systems
- Lockout/Tagout
- Bollards Mishap





# Arc Flash



- Briefed Senior Leadership on need for program
- Developed a campaign to alert personnel to the hazards of Arc Flash
- To date:
  - 20 people have been trained (100 remain)
  - 11 full sets of gear (and various associated items) have been purchased
  - Specific plans are being developed for training the remaining personnel and the purchase of additional equipment



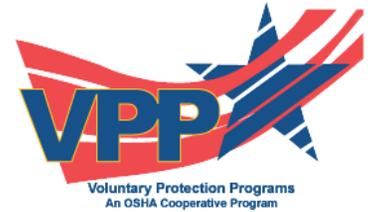
# Pressure Systems



- Total of 310 pressure vessels, piping systems, and pressure tunnels
  - 240 in ACTIVE status
  - 65,000+ pressure components in database
  - 857 total inspection tasks
    - (In CY'05, a total of 76 of 235 inspection tasks were carried over into CY '06)
- LaRC's investment in pressure systems recertification has been steadily declining
- Review of status shows cuts too deep
- Center Operations Directorate to develop a budget plan to restore the program health



# Lockout/Tagout Issues



- Revamped the LOTO program to resolve inconsistencies and standardize safety operator and field verifier training End product: An improved, more consistent process

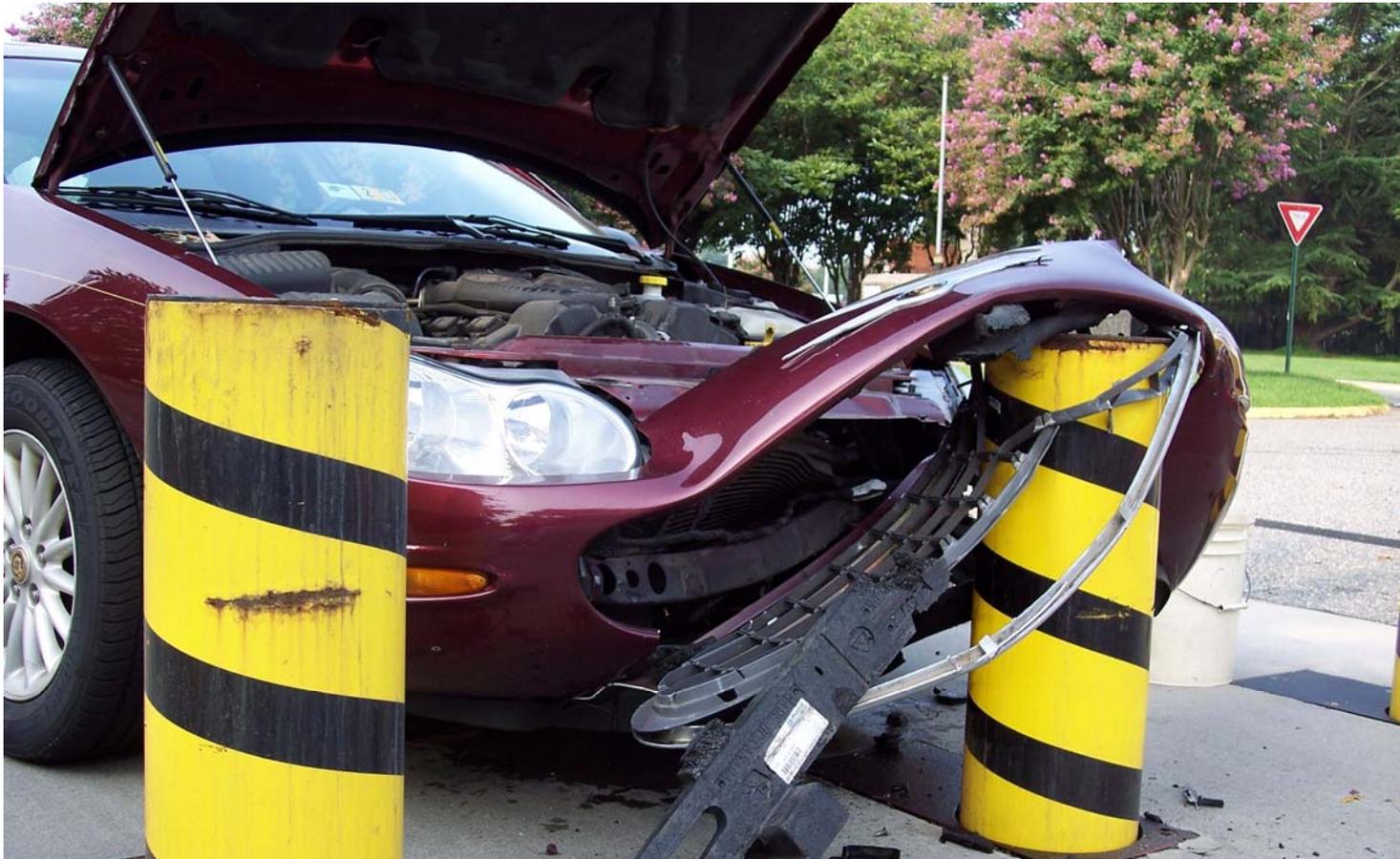




# Bollards Mishap



- LaRC security cleared a vehicle to pass through the gate and subsequently raised bollards under the vehicle.





# Bollards Mishap



- Safety interlock (as procured) is adequate to prevent stationary automobiles from being impacted but ineffective in protecting slow moving automobiles
- LaRC safety handbooks are ambiguous on safety processes for “off-the-shelf” non-research facility systems
- We will be performing a system safety analysis on the bollards system, perform appropriate system modifications, and update our handbooks to address “off-the-shelf” non-research systems



# Occupational Health





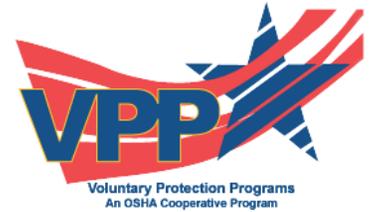
# Occupational Health



- Occupational Health contract status
  - 2nd option year extension
  - Cost: \$992,672 annually
  - NASA contractors confirmed desire to utilize Health Clinic services through survey on a cost reimbursement basis
  - Types of protocol exams needed by six NASA contractors
    - Radiation 15
    - Chemical 23
    - Hearing 80
    - Methylene Chloride 2
    - Beryllium 1
    - Safety Glasses 11



# Occupational Health



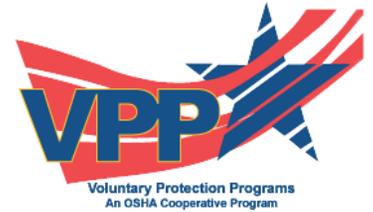
- Flu Shots:

- The Clinic provided a total of 1,337 vaccines for the 2005 - 2006 flu season Cost: \$21,000
- 817 civil servants
- 471 NASA contractors
- 49 Non-Appropriated Fund (NAF) personnel and others





# Occupational Health



- AED LPR 1845.1 published January 2006
- New LF483, Monthly AED Safety Maintenance Inspection Record (added to Supervisor inspections)
- Placement of AED oversight and program coordination & training under Center Medical Officer as required by NPR 1800.1
- 219 employees (civil service and contractor) have been certified as AED responders
- Began conducting drills with Medtronics 3<sup>rd</sup> Qtr 2005



# Occupational Health



- AEDs placed in Bldg 1152 (Union Office) & Badge and Pass Office – total AED's 33
- 10 Orientation Video & Operational Manuals available at Multimedia Education Center for check-out by responders, safety heads and supervisors.
- Life-Pak CR-Trainer purchased to continue for quarter drills.
- Web-page in the works to house responder list, locations, and resource information

# LaRC Automated External Defibrillator Program



Certified AED Responder Located Here

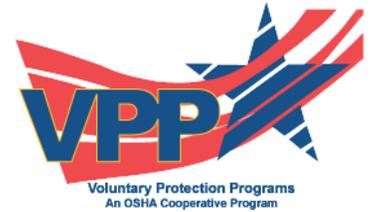


# Fitness Center



- New equipment purchases planned for FY'06
  - 2 new TVs and stereo receivers
  - Dumb bells
  - Multi-cable machine
  - Abduction/adduction
  - Power rack
- Awaiting lighting improvement
- Funding needed to improve flooring and mirrors
- Average daily attendance - 54
- New members YTD October - 85
- Total members on file - 644



A satellite-style aerial photograph of a large body of water, likely the ocean, showing a prominent storm system with a clear eye and spiral cloud bands. The horizon is visible at the top of the image.

# Emergencies & Disasters: *Planning & Procedures*



# LaRC COOP Plan



- Assure that LaRC continues essential operations following severe weather events, utility outages, fires, mechanical failures or security-related incidents.
- New SFAB employee with primary function to Develop and Implement the COOP.

Langley Research Center 

Continuity of Operations (COOP) Plan



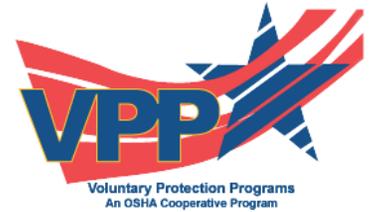
Five Phases of COOP

- PREPARATION
- RESPONSE
- RESUMPTION
- RECOVERY
- RESTORATION

Safety and Mission Assurance Office



# Emergency Preparedness

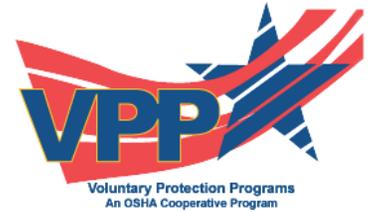


- Safety Manager is EPO
- New EOC
- We will drill a Category 3 Hurricane scenario to gauge our readiness
- Intentional overlap with COOP plan to insure orderly transition to COOP activities





# Support to Stennis



- LaRC provided manpower and equipment to support:
  - Facility assessments
  - Asbestos investigations
  - Mold investigations
  - Sanitation inspections
  - Training and education: remediation strategies and PPE recommendations

