



**“1001 Navy Safety Success Stories”
DoD Safety Forum
23 Sep 08
Anaheim, CA**

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□ Today's Goals

- Gain a brief understanding of the 134 Naval Safety Success Stories
- Leave with a bookmark to the website
<http://safetycenter.navy.mil/success>
- Navigate the website:
 - Story index
 - Executive summaries
 - Cost/time saving chart
 - Or full stories with points of contact for further information
- Learn about other safety success story websites

Success Stories

- Success home
- Story Index
- Story Summaries
- New Stories
- Submission Guidelines
- Submit Your Story

Focus on Safety

- Mishap Reduction
- Best Practices
- Photo of the Week
- Newsletter
- Online Reporting
- SafeTips
- Risk Management

Services

- Online Feedback
- NSC FOIA Request
- Navy FOIA
- Links
- Privacy Policy
- Secure Site (PKI)
- Staff Directory

1,001 Safety Success Stories

New Stories

- Naval Submarine Base Kings Bay Awarded Voluntary Protection Program Star Status
- LED Crosswalk Signs Enhance Traffic Safety at Naval Station Mayport
- Fleet Readiness Center (FRC) East Uses Lazy Susan Design to Prevent Work Related Musculoskeletal Disorders
- Naval Weapons Station Charleston Awarded OSHA VPP Merit Status
- Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility Achieves OSHA VPP Star Status
- Naval Support Activity Mechanicsburg Deploys "First of Its Kind" Overhead Crane Retractable Rigger Fall Protection System
- Naval Hospital, Rota Resolves Ergonomics and Safety Issues In Operating Room



Current Success Story Count = 130

Story Index	Cost/Time Savings Chart
Executive Summaries	Submission Guidelines
New Stories	Submit a Story

This is an official U.S. Navy Web Site
Contact the **Webmaster** or **Public Affairs Officer**

Naval Safety Center
375 A Street
Norfolk, VA 23511
(757) 444-3520
(DSN 564)
Contact the
Webmaster or
Public Affairs Officer

Last Updated:
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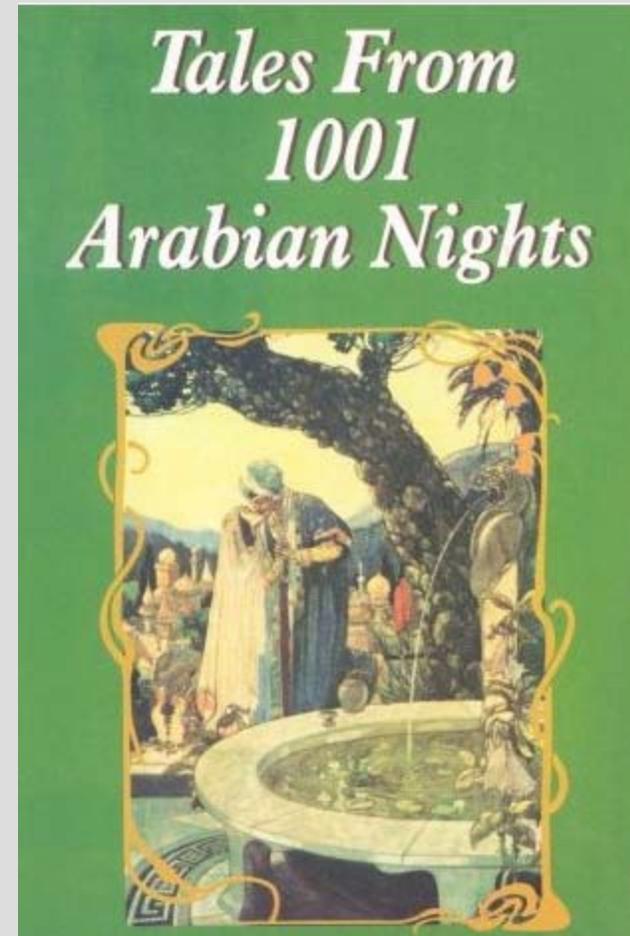
To control risks and avoid hazards, Navy and Marine Corps units often devise new strategies and adopt "best practices" from commercial industry. In turn, these efforts produce a wide range of successes. On these pages, we share them with our readers: innovative problem-solving strategies, new technologies, and award-winning safety programs. These Success Stories show the continuing commitment of the Navy and Marine Corps to take care of our people by integrating safety practices into our operations.

The Naval Safety Center's 1,001 Safety Success Stories website showcases numerous Navy and Marine Corps achievements that prevent injuries, disabilities, and fatalities among our military and civilian personnel. The Success Stories concept was originated by the Navy Headquarters Occupational Safety and Health (NAVOSH) Program Office (CNO N454). We are expanding that idea.

We anticipate that our Success Stories will help others to protect their people by improving programs that prevent mishaps and injuries, save lives, and reduce costs. [Click here to read about a commendation CNO N454 received for their Success Stories web site.](#)

□ 1001 Navy Success Stories Website - Background

- “1001” is from the book 1001 Arabian Nights
- Focuses on successes not failures, mishaps or losses
- Demonstrates the broad value of safety (more than numbers)
- Leverage limited resources



□ Naval Safety Center's "1001 Safety Success Stories" Website

Background

- Received recognition from Government Executive Technology competition
<http://www.safetycenter.navy.mil/success/downloads/GovAwardLetter.pdf>
- In story format; not technical jargon
- Safety success stories are our legacy

GOVERNMENT EXECUTIVE

October 2001

To: Ms. Gina Moore
CNO Environmental Protection Safety & Occupational Health
Division N45
2211 South Clark Place
Crystal Plaza 5, Room 636
Arlington, VA 22202-3735

From: Sandra Bates, Commissioner, FTS-GSA and Chairwoman, Government Technology Leadership Awards
Timothy B. Clark, Editor and President, *Government Executive*

Project: 1001 NAVOSH Success Stories
Number: C4 - J

Dear Ms. Moore:

On behalf of the judges of the 2001 Government Technology Leadership Awards, we thank you very much for participating in this year's contest. Our selection panelsists were impressed with your nomination and although your project was not chosen as an award recipient this year, it was among the 30 finalists picked from an unprecedented total of 266 entries.

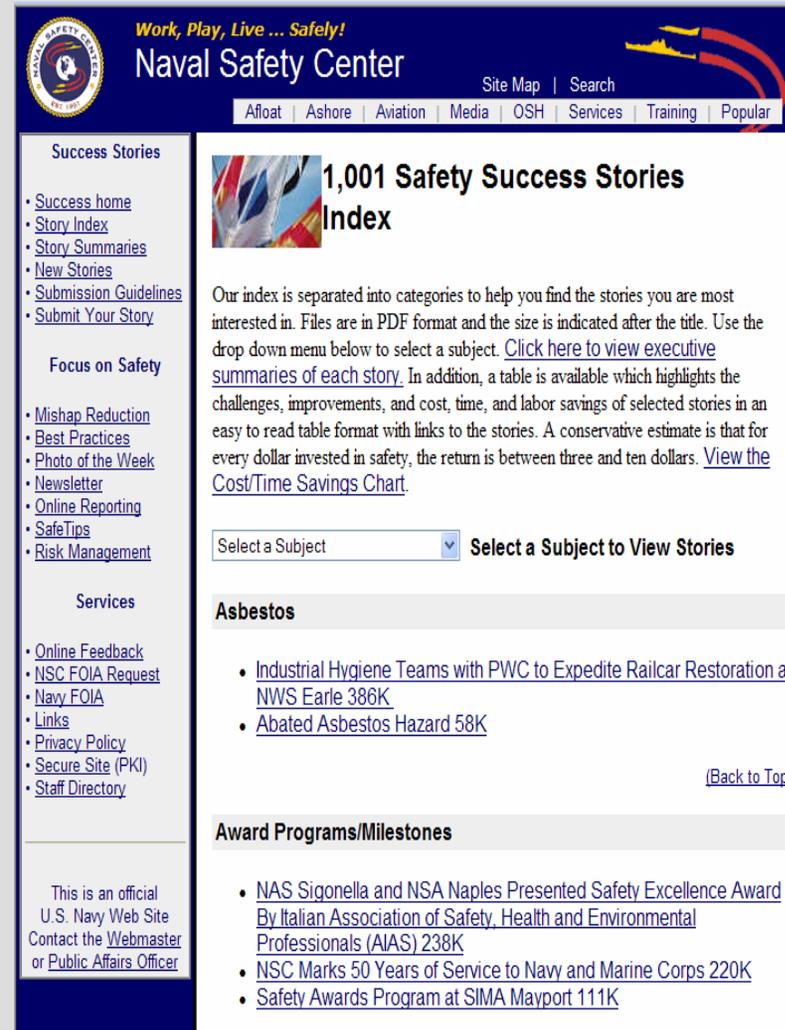
We hope that as your program's measurable benefits continue to grow, you will consider submitting a nomination for the 2002 or 2003 awards. Your entry demonstrated a real commitment to improving service within the federal technology arena.

You will be able to read about the winners in the December issue of *Government Executive*. We sincerely hope that you, your family and friends are safe and well during this very trying time.

Thank you once again for your participation.

Success Stories Website Index

- Asbestos - 2
- Award Programs/Milestones - 3
- **Chemical Hazards - 7**
- Cold Stress - 1
- Crane and Elevated Work Platform Safety - 1
- Egress - 1
- Emergency Management - 2
- Electrical - 6
- **Ergonomics - 45**
- **Fall Hazards - 12**
- Forklift Truck Safety - 1
- Heat Stress - 2
- Industrial Ventilation - 6
- Innovative Technologies - 2
- Lasers - 1
- Multimedia - 3
- Noise - 6
- Operational Risk Management - 2
- Respiratory Protection - 3
- **Safety and Occupational Health Programs - 16**
- Traffic Safety - 4
- Vibration - 3
- Voluntary Protection Program - 6



The screenshot shows the Naval Safety Center website's Success Stories index. The header includes the slogan "Work, Play, Live ... Safely!" and the Naval Safety Center logo. Navigation links for "Afloat", "Ashore", "Aviation", "Media", "OSH", "Services", "Training", and "Popular" are visible. The main content area features a "Success Stories" sidebar with links to "Success home", "Story Index", "Story Summaries", "New Stories", "Submission Guidelines", and "Submit Your Story". Below this is a "Focus on Safety" section with links to "Mishap Reduction", "Best Practices", "Photo of the Week", "Newsletter", "Online Reporting", "SafeTips", and "Risk Management". A "Services" section includes "Online Feedback", "NSC FOIA Request", "Navy FOIA", "Links", "Privacy Policy", "Secure Site (PKI)", and "Staff Directory". The main content area displays "1,001 Safety Success Stories Index" with a brief description of the index's purpose and a search form labeled "Select a Subject to View Stories". Below the search form, there are two sections: "Asbestos" with links to "Industrial Hygiene Teams with PWC to Expedite Railcar Restoration at NWS Earle 386K" and "Abated Asbestos Hazard 58K"; and "Award Programs/Milestones" with links to "NAS Sigonella and NSA Naples Presented Safety Excellence Award By Italian Association of Safety, Health and Environmental Professionals (AIAS) 238K", "NSC Marks 50 Years of Service to Navy and Marine Corps 220K", and "Safety Awards Program at SIMA Mayport 111K". A "(Back to Top)" link is also present.

<http://www.safetycenter.navy.mil/success/default.htm>

□ “1,001 Safety Success Stories Executive Summaries”

- Provides a short paragraph of each story with link to the entire story
- Can do a word search on this webpage to pull up specific story (very quick query)
- Can use executive summaries to brief senior leaders



The screenshot shows the Naval Safety Center website. The header includes the slogan "Work, Play, Live ... Safely!" and the Naval Safety Center logo. Navigation links include "Afloat", "Ashore", "Aviation", "Media", "OSH", "Services", "Training", and "Popular". The main content area is titled "1,001 Safety Success Stories Executive Summaries" and features a small image of a person holding a flag. Below the title, there is a paragraph explaining that the executive summaries are listed in order of submission and providing a link to an index of stories by category. Two specific stories are highlighted: "Naval Submarine Base Kings Bay Awarded Voluntary Protection Program Star Status" and "LED Crosswalk Signs Enhance Traffic Safety at Naval Station Mayport".

1,001 Safety Success Stories Executive Summaries

Our executive summaries are listed in order of submission, with the newest stories first. To find a story or topic quickly, use the "find" feature of your browser to search for key words. [Click here for an index of stories by category.](#)

[Naval Submarine Base Kings Bay Awarded Voluntary Protection Program Star Status](#) – In April 2007, NSB Kings Bay received the Occupational Safety and Health Administration's (OSHA) Voluntary Protection Program (VPP) Star designation. A determinant in NSB Kings Bay's achievement was the fact that their injury and illness Total Case Incident Rate was 58% below the 2002 Bureau of Labor Statistics (BLS) industry average. The command's three-year Days Away From Work, Restricted Work Activity, or Transferred (DART) was 34% s below the BLS 2002 average. Another vital factor in attaining Star status was employee involvement. This story contains specific examples of how NSB Kings Bay took action to attain VPP Star status as well as valuable resources on the OSHA VPP Program, the application process, and how to qualify for membership.

[LED Crosswalk Signs Enhance Traffic Safety at Naval Station Mayport](#) - A crosswalk in the middle of a very busy street was poorly visible to oncoming vehicular traffic, putting pedestrians at risk for mishaps. NS Mayport's Traffic Safety Coordinator worked with Base Safety and others to abate this traffic safety hazard. A BlinkerSignT - a solar/battery-powered LED warning sign - was installed at the crosswalk. The BlinkerSignT has been so successful that NS Mayport obtained funding for and installed a second set of lights at another busy crosswalk. Plans for installment of a third BlinkerSignT with enhanced features are underway.

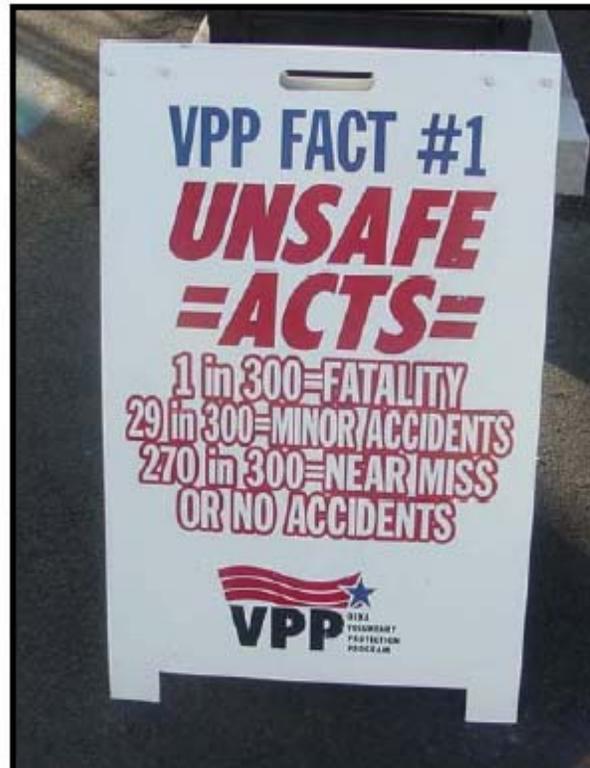
<http://safetycenter.navy.mil/success/summaries.htm>



“Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility Achieves OSHA VPP Star Status”



“HURT” [Help U Reduce Trauma] newsletter stimulates employee interest in safety and health.

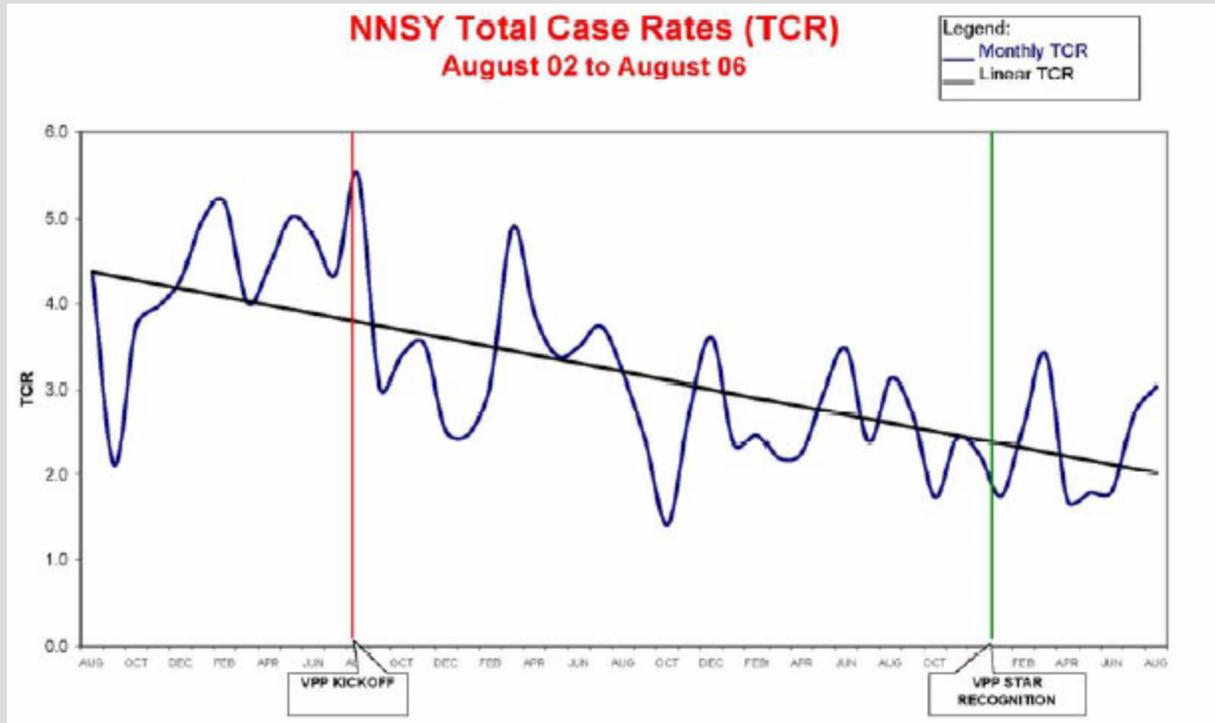


A VPP “Sandwich Board” communication system is located in high traffic areas throughout PHNSY & IMF.



PHNSY & IMF invested in an ergonomics program that includes an employee-led “Flex and Stretch” program.

❑ VPP Success Story – “Norfolk Naval Shipyard is Awarded Star Status”



Acting Deputy Assistant Secretary for OSHA Steve Witt (r) presents the VPP Star Site certification to Shipyard Commander CAPT Joseph F. Campbell (c) and shipyard Safety & Health Director Russ Chantry.

The shipyard's on-duty total case rate declined over 50% since the VPP kickoff.

□ “VPP Star Status Awarded to Norfolk Naval Shipyard”

- Each VPP Success Story has key information in a shaded box
- Examples here describe the shipyard “Big Rock”
- The “Big Rock” is a performance incentive program with safety goals

❖ NNSY has a unique performance incentive program called the “Big Rock.” The shipyard reserved 75% of its annual awards budget for this program. The Big Rock program selects several major milestones, which if accomplished, ensure success for the shipyard. An example of a Big Rock would be completing a Chief of Naval Operations (CNO) availability (scheduled time period provided shipyard to perform its repairs) on schedule. In the past year, safety goals accounted for 20% of the entire Big Rock incentive. All employees share equally in the rewards. Each time a Big Rock was crushed throughout the year, there was a celebration which included: military upper echelon participation and recognition; actual Big Rocks to bust on a public shipyard platform; and refreshments. The Safety Big Rocks for FY05 related to improvement in personal protection equipment (PPE), regulatory compliance, and reducing the Lost Workday Rate. The overall goal of the Safety Big Rocks was to increase safety awareness. NNSY used numerous avenues to publicize the Big Rock program, including banners on buildings and regular intranet and shipyard newsletter updates.

❑ “Puget Sound Naval Shipyard and Intermediate Maintenance Facility Earns OSHA VPP Star Status”

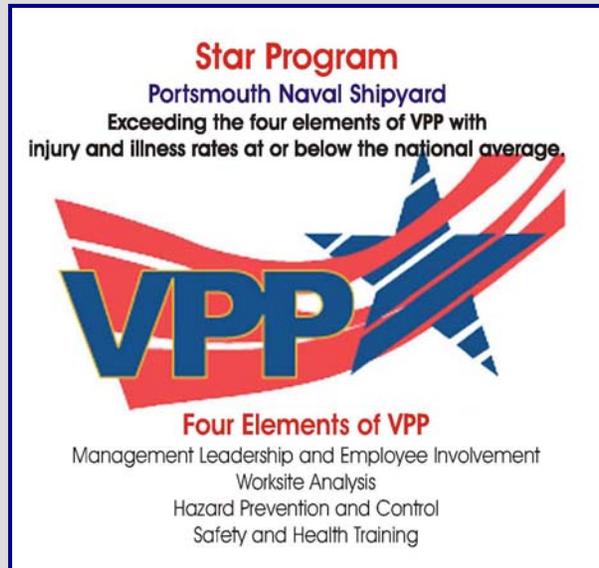


- **VPP Passport** - an educational tool to increase employees' knowledge of VPP and the PSNS & IMF safety program. *VPP Passport* also increased individual employee's involvement in his or her own safety. Currently 68% of PSNS & IMF employees have completed the first version of the passport. Version 2 is set to be released soon.
- **Shop, Code, and Project Safety Committees** - Each PSNS & IMF Shop, Code, and Project currently has a Safety Committee made up of employees who work together to solve safety issues in their work areas.
- **Quarterly Worksite Inspections** - Shop, Code, and Project Safety Committees have teamed up with the PSNS & IMF Safety office to conduct safety inspections of the entire facility on a quarterly basis. Previously, the Safety office conducted annual inspections, but with the assistance of employees, they have been able to increase the frequency of the inspections and receive assistance in getting deficiencies corrected in a timely manner.
- **Employee Recognition** - Currently, PSNS & IMF has two employee recognition programs through which employees can be recognized by other employees for safe work practices.
 - The *Safety ACT Program* allows employees to nominate other employees for recognition who perform a specific contribution related to safety.
 - The *VPP Recognition Team* recognizes employees they find working in a safe manner with free lunch tickets.

□ “Portsmouth Naval Shipyard Achieves VPP Star Status”



Commodore Hull – the shipyard’s first commanding officer



The VPP *Star* award designation indicates that the organization receiving the award has exceeded the four basic VPP elements



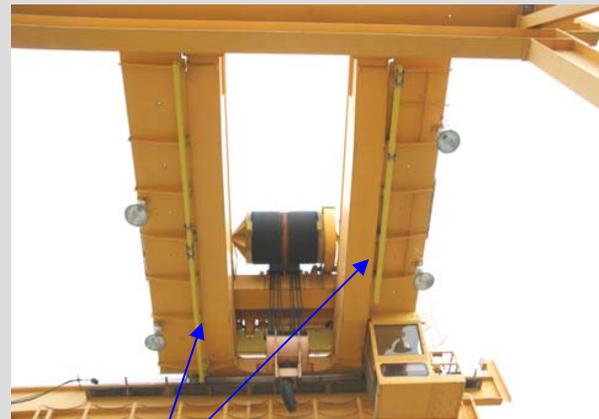
Speakers VPP “Star” Celebration – Portsmouth Naval Shipyard 25 March 2005 - (l to r) CAPT Kevin McCoy, Asst. Deputy CDR of Industrial Operations, NAVSEA; Congressman Jeb Bradley, NH; Congressman Tom Allen, ME; Mr. Paul O’Connor, Pres. Federal Employees Metal Trades Council; CAPT Jonathan Iverson, CDR PNSY; Mr. Jonathan Snare, Acting Asst. Secy. Of Labor OSH; Ms. Marthe Kent, Regn’l. Admin., OSHA; Ms. Connie DeWitte, DASN(Safety); VADM Phillip Balisle, CDR NAVSEA.



□ “Naval Support Activity Mechanicsburg Deploys “First of its Kind” Overhead Crane Retractable Rigger Fall Protection System”



200-ton Ederer overhead bridge crane before it was outfitted with self-retractable lifeline fall protection devices. Riggers had to climb out onto the component to attach rigging device to the crane hook.



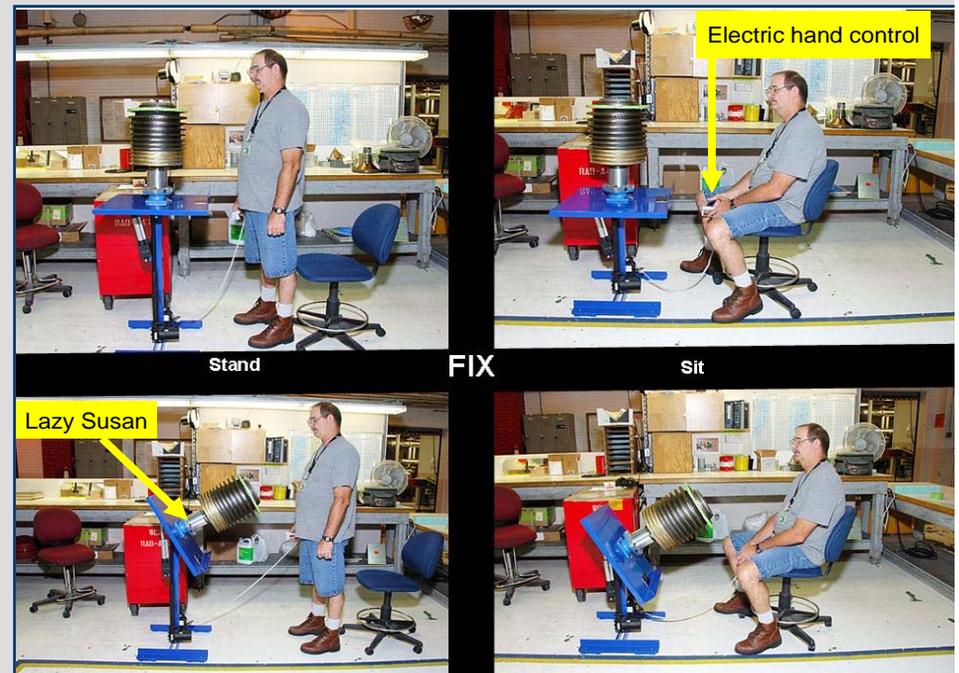
Two eight-inch I beams, six trolleys and trolley stops attached to the underbelly of an Ederer 200-ton overhead bridge after retrofit with *self-retractable lifeline* fall protection system.



❑ “Fleet Readiness Center East Uses Lazy Susan Design to Prevent Work Related Musculoskeletal Disorders”



Artisans stood for long periods bent over T64 compressors, putting them at risk for WMSDs.



Shop artisans use a height adjustable “Lazy Susan” to allow them to alternate sitting and standing postures and to tilt parts to avoid bending over their work for long periods.

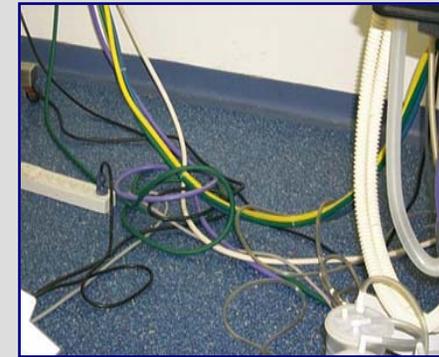
❑ “Naval Hospital, ROTA, Spain Resolves Ergonomics Issues in Operating Room”



OR was congested with equipment.



OR staff stand for long hours and adopt awkward postures



Electrical and gas lines presented a trip hazard



Swiveling racks and powered height adjustable system eliminate working in awkward postures.



Ceiling-mounted boom racks and flat-panel video displays located on suspended, swiveling racks reduce clutter in OR and allows surgical team to work in neutral postures.



After testing several designs, the preference was for the “Xomed entroll” chair which provided the best variety of positions and tilt .

❑ “NADEP Jacksonville Conquers Odd Shapes and Awkward Postures in its Aircraft Canopy Repair Shop”



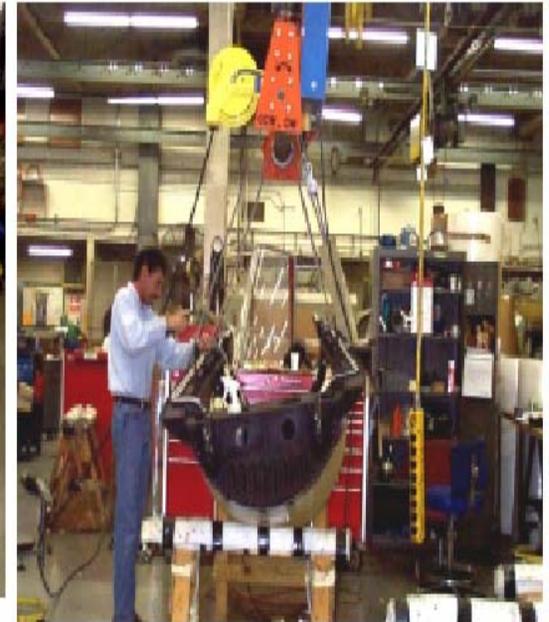
Mechanic having difficulty working on underside of canopy before ergonomic improvements



Working overhead fatigued worker before ergonomic improvements



The tilting seat of the *industrial positioner* provides proper body support



Flip Rite securely cradles an aircraft canopy

Polishing and repairing aircraft canopies resulted in awkward body positions leading to ergonomic injuries. Equipment purchased for the shop including an *industrial positioner* and specialized hoist which flips and rotates the canopy.

□ “Navy Industrial Hygiene Assists in Sinking Exercise of Decommissioned Aircraft Carrier”



USS AMERICA (CV-66)
(1965-1996)



Air samples from the *Ex-America* were examined for traces of asbestos.



The *Ex-America*, scuttled at end of the SINKEX, rests on Atlantic floor, more than 6,000 feet beneath the surface.

The Navy Bureau of Medicine’s industrial hygiene contributions to identifying health hazardous air contaminants were essential in protecting the *Ex-America* test personnel.

❑ “LED Crosswalk signs Enhance Traffic Safety at Naval Station Mayport”



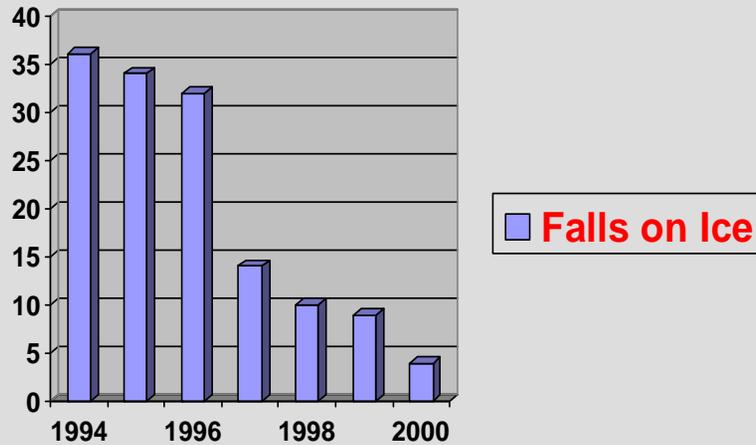
Warning sign has yellow ultra-bright LEDs that blink up to 60 times per minute.



Prior to the installation of the *BlinkerSign™*, Base Safety received regular complaints about the dangerous SERMC crossing area.

Installation of a solar/battery powered flashing warning sign with a light enhancing magnifying lens improves pedestrian safety at one of the largest U.S. Naval facilities.

□ “Successful OSH Program at NAS Keflavik, Iceland”



Reflectors were developed in the shape of Iceland for the hazard of darkness with reduced visibility.



Snow melts on NAS Headquarters' pavement

Use of abundant geothermal hot water piped under the various walkways on the station melts ice and snow with a cost effective 90% reduction in falls.

□ Cost Savings Examples

- Website contains cost savings chart
- Financial evaluation estimates cost and/or labor savings

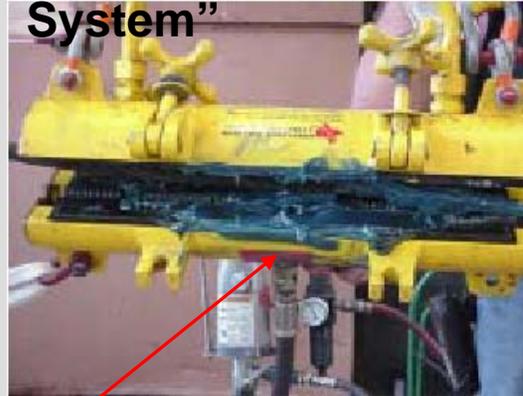
COST/TIME SAVINGS				
[Click on photos to see corresponding NAVOSH Success Stories]				
ACTIVITY	CHALLENGE	IMPROVEMENT	COST SAVINGS	TIME/LABOR SAVINGS
ACU-4 Little Creek, VA	Prolonged awkward postures, extended reaches overhead. 	Design of height-adjustable, rotating mobile propeller fixture for transporting LCAC propellers and working on them in the Propeller Shop.	Reduced risk of WMSDs of the neck, back, arms, and shoulders with resulting workers' compensation costs.	Return on investment of 223 days based on improvements in productivity and the statistical probability of avoidance of at least one work-related injury or WMSD.
COMNAVREG San Diego, CA	Awkward postures, extended reaches, heavy lifting 	Redesigned work stations, sit/stand stools, scissor lift tables	Reduced risk of WMSDs of the neck, back, arms, and shoulders with resulting workers' compensation	\$41,433.00 every year for a return on investment in 519 days, or approximately one year and five

<http://safetycenter.navy.mil/success/downloads/CostSavings.pdf>

❑ **“PWC San Diego Prevents WMSDs, Increases Productivity and Reduces Costs with Automated Cleaning and Lubrication System”**



Manual cleaning and lubrication is both time consuming and causes repetitive motion injuries.



Automating this process reduces time and injuries

Combined savings in labor and lost time is \$286,000 annually

□ “Improved Ergonomic Cable Pulling Method”



- NSY Norfolk
- Labor reduction from 30 - 70 workers to 7 - 12 workers per cable pull
- Savings \$118K per year

Cable weighs 7 lbs/ft and requires 30 – 70 workers 2-3 days to pull manually and causes numerous muscle and back strains.

❑ Cost Savings Example

“PWC San Diego Prevents Injuries while Improving Productivity and Reducing Costs”



- Savings in labor and lost time is almost \$75,000 per year
 - Workers used to have to pull these tarps by hand. With the installation of the *Sky Hook* the hazards were significantly reduced while injuries disappear.

☐ “Safety Success Stories”

Other Web-linked References

- National Weather Service “Lightning Safety Success Stories”
<http://www.lightningsafety.noaa.gov/success.htm>
- OSHA Compliance Assistance Success Stories
http://www.osha.gov/dcsp/compliance_assistance/success_stories.html
- OSHA “Small Business Success Stories”
<http://www.osha.gov/dcsp/smallbusiness/successes.html>
- NIOSH “Ergonomic Case Studies & Success Stories”
<http://www.ergo.engin.com/Articles.html>
- Department of Homeland Security “Success Stories”
<http://www.dhs.gov/xabout/stories011.shtm>
- Marine Corps Center for Lessons Learned
<http://www.mccll.usmc.mil>
- Naval Safety Center Best Practices
<http://safetycenter.navy.mil/bestpractices/index.asp>
- ☐ Naval Safety Center Safety Success Stories
<http://safetycenter.navy.mil/success>

