



NIEHS

National Institute of
Environmental Health Sciences

NIEHS Technical Workshop

Katrina Response Update

Research Triangle Park, NC

October 20, 2005



WORKER EDUCATION AND TRAINING PROGRAM





NIEHS

National Institute of
Environmental Health Sciences

WETP Katrina Response: What's New? What's Next?

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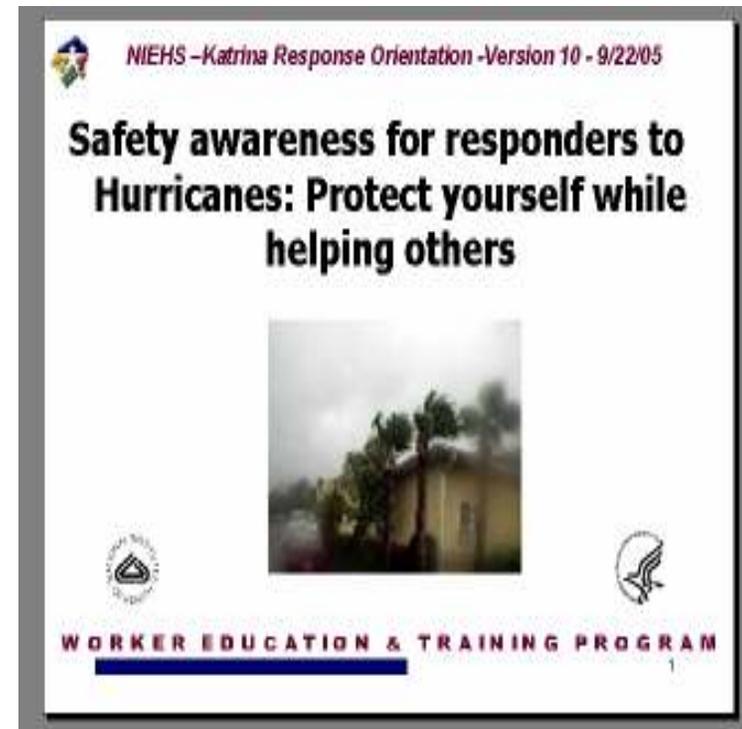


NIEHS WSH Training Annex

- Provides training assistance through FEMA-OSHA during national disasters
 - Instructional staff
 - Curriculum development experts
 - Subject matter experts
 - Training facility
- Provides technical assistance
 - Respirator fit testing
 - Distribution of PPE

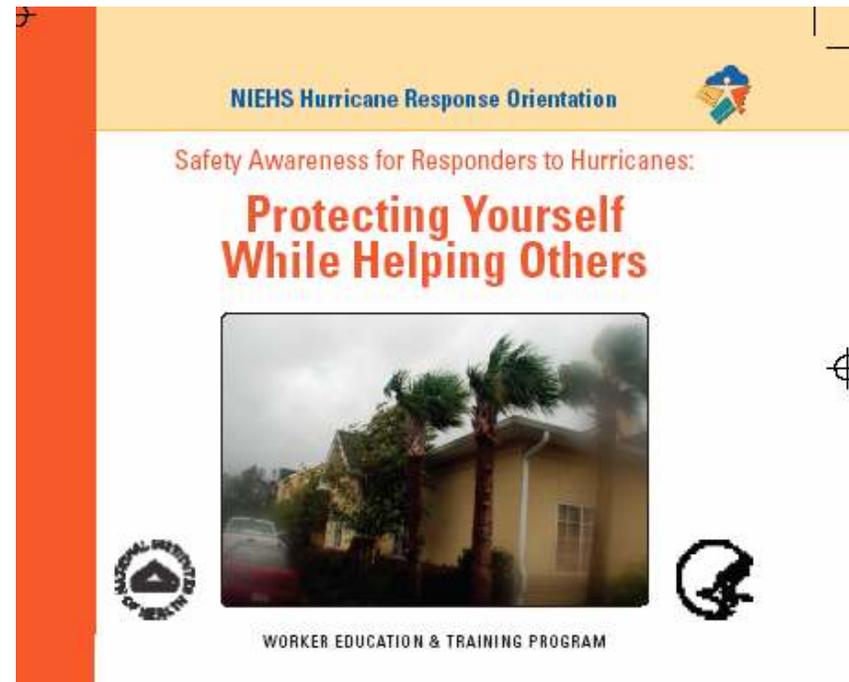
Katrina Response Powerpoint

- Produced September 1st by the Clearinghouse
- Has become the most widely used safety and health awareness program in the disaster zone.
- Promoted as available for any organization to adapt.
- Originally in English, but translated into Spanish by CPWR.
- Updated almost daily for first several weeks (currently version 10).



NIEHS Katrina Booklet

- Designed to accompany Power Point
- Available within days of PowerPoint creation
- Available in a print layout version with crop and registration marks for printers.
- Brochure can be printed in color or black and white to save costs.
- Available in English and Spanish
- Can be ordered from NIEHS directly from the WETP website through IUOE





Examples of Topics Covered:

NIOSH –Katrina Response Orientation -Version 9 - 8/15/05

Hazard: Piles of debris and unstable work surfaces

- Don't walk on surfaces you aren't sure are stable.
- Use other ways to get to work surfaces, such as bucket trucks.
- Erect scaffolding on stable surfaces and anchor it to stable structures.
- Wear protective equipment provided, including safety shoes with slip resistant soles.
- Use fall protection with lifelines tied off to suitable anchorage points, including bucket trucks, whenever possible.



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NIOSH –Katrina Response Orientation -Version 9 - 8/15/05

**Hazard: Heat stress
Heat stroke is a killer**

- Drink lots of water.
- Know the signs of heat-related illnesses.
- Monitor yourself and co-workers, use the buddy-system.
- Block out direct sun or other heat sources.
- Use cooling fans/air-conditioning and rest regularly.
- Wear lightweight, light-colored, loose-fitting clothes.
- Avoid alcohol, caffeinated drinks, or heavy meals.
- Get medical help for symptoms such as altered vital signs, confusion, profuse sweating, excessive fatigue.
- Take shelter in shaded areas and, for fire fighters, unbutton and remove bunker gear.



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NIOSH –Katrina Response Orientation -Version 9 - 8/15/05

Hazard: Potential chemical exposures

Symptoms: Eye, nose, throat, upper respiratory tract, and skin irritation; flu like symptoms, difficulty breathing, fatigue, loss of coordination, memory difficulties, sleeplessness, mental confusion. Chronic effects depend on the extent and the duration of exposure.

- Fire Fighting: Use self Contained Breathing Apparatus (SCBA) with full face piece in pressure demand or other positive pressure mode.
- Entry into unknown concentration: Use SCBA gear.
- Rescue operations with vapors present: Use gas mask with front mounted organic vapor canister (OVC) or any chemical cartridge respirator with an organic vapor cartridge, if enough breathing air is present.
- Dusty environments and strong odors: Use combination particulate filter/organic vapor cartridge. Charcoal impregnated N-95 respirators will reduce odors.

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NIOSH –Katrina Response Orientation -Version 9 - 8/15/05

Hazard: Standing Water

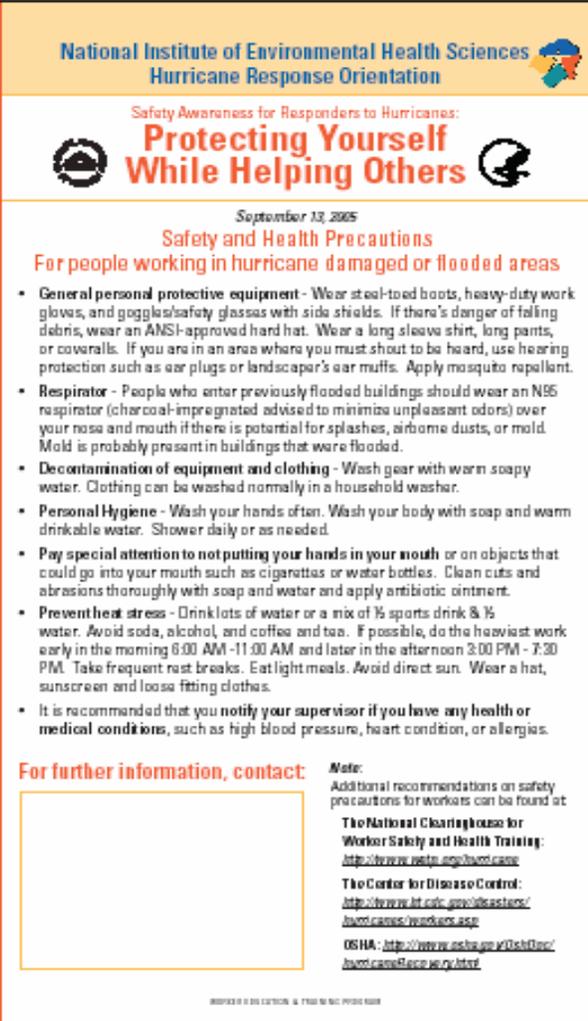
- EPA has found elevated levels of contamination associated with raw sewage and other hazardous substances in the flood waters in New Orleans.
- The EPA advises that human contact with water should be avoided.
- Workers should wear waders and waterproof gloves when coming into contact with flood water.
- If clothes come into contact with flood water, wash them in water and detergent separately from uncontaminated clothes and linens.
- If skin comes into contact with flood water, wash thoroughly with soap and water.
- If you have any open cuts or sores that will be exposed to floodwater, keep them as clean as possible by washing them with soap and applying an antibiotic ointment to discourage infection.
- Make sure flood water does not get in your mouth.



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Katrina Responder Safety Poster

- Developed by NIEHS from Sept. 13th safety and health precautions issued by the Joint Field Office in Baton Rouge
- Based on their assessment of the most important safety and health issues facing cleanup workers.
- Can be printed on any color printer.
- There is space at the bottom for organizations to add their contact information for safety and health support or the business card of their safety personnel



**National Institute of Environmental Health Sciences
Hurricane Response Orientation**

Safety Awareness for Responders to Hurricanes:
**Protecting Yourself
While Helping Others**

September 13, 2005
**Safety and Health Precautions
For people working in hurricane damaged or flooded areas**

- **General personal protective equipment** - Wear steel-toed boots, heavy-duty work gloves, and goggles/safety glasses with side shields. If there's danger of falling debris, wear an ANSI-approved hard hat. Wear a long sleeve shirt, long pants, or coveralls. If you are in an area where you must shout to be heard, use hearing protection such as ear plugs or landscaper's ear muffs. Apply mosquito repellent.
- **Respirator** - People who enter previously flooded buildings should wear an N95 respirator (charcoal-impregnated advised to minimize unpleasant odors) over your nose and mouth if there is potential for splashes, airborne dusts, or mold. Mold is probably present in buildings that were flooded.
- **Decontamination of equipment and clothing** - Wash gear with warm soapy water. Clothing can be washed normally in a household washer.
- **Personal Hygiene** - Wash your hands often. Wash your body with soap and warm drinkable water. Shower daily or as needed.
- **Pay special attention to not putting your hands in your mouth** or on objects that could go into your mouth such as cigarettes or water bottles. Clean cuts and abrasions thoroughly with soap and water and apply antibiotic ointment.
- **Prevent heat stress** - Drink lots of water or a mix of ½ sports drink & ½ water. Avoid soda, alcohol, and coffee and tea. If possible, do the heaviest work early in the morning 6:00 AM - 11:00 AM and later in the afternoon 3:00 PM - 7:30 PM. Take frequent rest breaks. Eat light meals. Avoid direct sun. Wear a hat, sunscreen and loose fitting clothes.
- It is recommended that you notify your supervisor if you have any health or medical conditions, such as high blood pressure, heart condition, or allergies.

For further information, contact:

Note:
Additional recommendations on safety precautions for workers can be found at:

The National Clearinghouse for Worker Safety and Health Training:
<http://www.pentagon.gov/ncwt/>

The Center for Disease Control:
<http://www.cdc.gov/od/ohrt/>
<http://www.cdc.gov/od/ohrt/>

OSHA: <http://www.osha-slc.gov/OSHA/>
<http://www.osha-slc.gov/OSHA/>

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OSHA-FEMA Mission Assignment

- National Response Plan activation of Worker Safety and Health Annex
- OSHA Sub-tasking to NIEHS on Oct. 12th for \$302,000 training assignment through Oct. 31
- Deployment of NIEHS Training Team led by Jim Remington and HMTRI trainers to Mississippi
- Integration with Biloxi JFO for field training assignments
- Proposed OSHA sub-tasking to NIEHS for Katrina training through 2006 for \$3.4M

OSHA-FEMA Training Subtask

ESF MISSION ASSIGNMENT SUBTASKING REQUEST

FEMA-Assigned MA Number: 1604DR-MS-OSHA-01 ESF Primary Agency: OSHA

Subtasked Agency: NIEHS State: _____ Disaster No. 2005082401-
Hurricane Katrina

Taking Statement/Statement of Work

NIEHS is tasked with developing course materials to train trainers, identify training locations, deploy trainers, and deliver training to target populations of federally supported responders in the Katrina response zone. In conducting this tasking, DOL/OSHA will provide NIEHS with contact information at the Joint Field Offices to coordinate these training activities with the other Federal Agencies. NIEHS will award administrative supplements to its current Worker Training Awardees to provide response orientation training to federal employees and federally-sponsored contractors engaged in hurricane recovery and remediation activities. In conjunction with OSHA, NIEHS WETP will develop a process to share and distribute relevant training and education materials through its web site and training distribution network within the Katrina response zone.

Project Completion Date: 10/31/2005

Authorized Funding: \$302,000

Reimbursement Procedure: Upon completion of scope of work, the subtasked Federal agency will submit a SF 1081, or other approved Treasury form to request reimbursement, detailing expenditures and activities to:

Occupational Safety and Health Administration (ESF Primary Agency)

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Working Through ICS

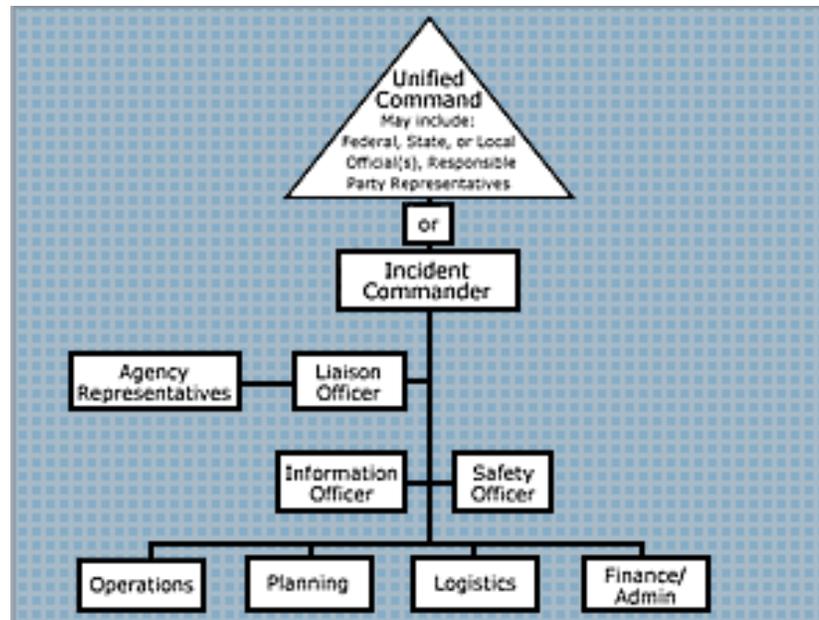


NIEHS – OSHA Katrina Response Initiative



Other Protective Measures

- Follow the Incident Command System



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OSHA-NIEHS Katrina MOU

The following activities will be undertaken through this Memorandum of Understanding (MOU):

- Will collaborate to develop and deliver training and education programs for reducing and eliminating hazards for disaster site workers and skilled support personnel in response to Hurricane Katrina in Louisiana, Alabama, Mississippi and Florida.
- NIEHS WETP will provide the OSHA Office of Training and Education (OTE) with high quality educational and training course materials and resources for training trainers and disaster site workers and continue supporting OSHA in implementing the Worker Safety Annex to the National Response Plan.
- NIEHS and its Worker Training Awardees and OSHA and its OSHA Education Centers will develop course materials to train trainers and deliver training to target populations in the Katrina response zone including those who may serve as skilled support personnel and disaster site responders.
- NIEHS WETP will develop a process to share and distribute relevant training and education materials through its web site and training distribution network.
- Selected NIEHS Training Awardees and OSHA Education Centers will develop situation-specific course materials and curricula and deliver training within the Katrina response zone.

Proposed Katrina Training Plan and Budget

- 80 hour Hazmat Technician Emergency Response Course (18 per class/6 classes) \$1600 per worker X 108 responders = \$172,800
- 24 hour Emergency Response Operations (20 per class/20 classes) \$480 per worker X 400 workers = \$192,000
- 8 hr. Emergency Response Awareness (25 per class/30 classes) \$160 X 750 workers = \$120,000
- 40 hr. HAZWOPER (20 per class/ 25 classes) \$800 per worker X 500 workers = \$400,000
- 16 hr. OSHA Disaster Site Worker Course (20 per class/50 classes) \$360 per worker X 1,000 = \$360,000
- 16 hr. Asbestos Abatement Worker Course (20 per class/15 classes) \$320 X 300 workers = \$96,000
- 10 hr. OSHA Construction Safety (20 per class/50 classes) \$200 X 1,000 = \$200,000
- 8 hr. Microbial Remediation Awareness Level (25 per class/ 100 classes) \$160 X 2500 workers = \$400,000
- 8 hr. Confined Space Operations Level (25 per class/ 30 classes) \$160 X 750 workers = \$120,000
- 8 hour Respiratory Protection (25 per class/ 50 classes) \$80 per worker X 1,250 = \$100,000
- 8 hr. HAZWOPER Annual Refresher (25 per class/ 50 classes) \$80 per worker X 1,250 = \$100,000
- 8 hr. Hazard Communications (35 per class/50 classes) \$80 per worker X 1,750 workers = \$140,000
- 8 Hr HAZWOPER refresher (25 per class/ 80 classes) \$160 per worker X 2,000 = \$320,000
- 4 hr Basic Katrina Safety Orientation Briefing (25 per class/ 200 classes) \$80 per worker X 5,000 = \$400,000
- Training Delivery On-site Coordination and Communication Support Activities = \$200,000

- The cost of a mission assignment for NIEHS to provide Katrina response training would be approximately \$3,420,000.

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Army Corps Contract Language

- **(d) Whenever the Contracting Officer becomes aware of any noncompliance with these requirements or any condition which poses a serious or imminent danger to the health or safety of the public or Government personnel, the Contracting Officer shall notify the Contractor orally, with written confirmation, and request immediate initiation of corrective action. This notice, when delivered to the Contractor or the Contractor's representative at the work site, shall be deemed sufficient notice of the noncompliance and that corrective action is required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any stop work order issued under this clause.**
- **If the contract will involve (a) work of a long duration or hazardous nature, or (b) performance on a Government facility that on the advice of technical representatives involves hazardous materials or operations that might endanger the safety of the public and/or Government personnel or property, add the following paragraph (f) to the basic clause:**
- **(f) Before commencing the work, the Contractor shall-**
- **(1) Submit a written proposed plan for implementing this clause. The plan shall include an analysis of the significant hazards to life, limb, and property inherent in contract work performance and a plan for controlling these hazards; and**
- **(2) Meet with representatives of the Contracting Officer to discuss and develop a mutual understanding relative to administration of the overall safety program.**

Katrina HASP Training Requirements

OSHA Katrina HASP contains the following training requirements:

All agency and contractor personnel engaged in response operations must be trained to recognize and avoid hazards.

This training is composed of several elements:

- *General training for disaster site workers*
 - *Site-specific training*
 - *Task specific training, including any mandated training requirements*
 - *Pre-deployment and pre-job briefings*
-
- *Site-specific training includes an overview of conditions specific to the locales where the employee will be deployed. Task-specific training includes items such as hazard communication, PPE, use of tools, safety at elevations, etc. Training that is mandated by various agencies, such as OSHA, EPA, USCG, DOT, etc., shall be provided in accordance with those agencies' guidelines.*

Katrina Breakout Objectives

- Addressing safety and health hazards in the NIEHS Katrina Site Orientation.
- Adapting and Streamlining NIEHS training programs to train non-federally funded workers for the cleanup and re-building in the Gulf Coast.
- Revisiting the OSHA Disaster Site Worker Course.
- Fleshing out a WETP training deployment plan for the Gulf.

Katrina Workforce Outreach

- **Immigrant workers risk danger for storm cash**
- By [MARY LOU PICKEL](#)
Cox News Service
Wednesday, October 19, 2005
- ATLANTA — At the day labor pickup spot by the Home Depot on Sydney Marcus Boulevard in Atlanta, workers leave for the Gulf Coast every few days as contractors stop and offer them jobs.
- They'll eagerly take work cleaning out maggot-infested food from refrigerators in New Orleans hotel kitchens and gutting homes and businesses containing asbestos and toxic sludge.
- The huge, multibillion-dollar cleanup task on the Gulf Coast is a magnet for immigrant workers, legal and illegal. Although some are happy with their jobs, others find that the conditions aren't what they had hoped. Many immigrants have fallen victim to unscrupulous contractors and thieving co-workers. They also fear disease and deportation.

Cleanup Worker Safety Version



NIEHS – OSHA Katrina Response Initiative



**Safety awareness for responders to
Hurricane Katrina Mississippi Operations:
Protecting yourself while helping others**



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Katrina Training -- Funding Streams

- NIEHS FY 2005 Supplements
- NIEHS 12th Month Funding
- OSHA-FEMA NIEHS Training Mission Assignment
- OSHA Harwood Training Supplements
- EPA Brownfields -- NIEHS Supplements
- FY 2005 Carryover Requests
- FY 2006 Rebudgeting Requests