

An aerial photograph of a river delta, likely the Mississippi River delta, showing a complex network of channels and distributaries. A large, irregular area of the water is stained a dark reddish-brown color, indicating an oil spill. The surrounding water is a deep blue, and there are some white clouds visible in the upper left and lower right corners.

NIOSH Activities in the Deepwater Horizon Response

**Worker Safety and Health
Technical Conference
October 20, 2010**

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National Institute for Occupational Safety and Health**

Occupational Hazards in the Gulf



CDC Assets in the DWH Response

C/I/O	Personnel	% of Response
NCEH/ATSDR (Lead)	80	16.9%
NIOSH	249	52.7%
OPHPR	90	19.1%
OSELS	24	5.1%
OD	18	3.8%
OID	4	0.9%
OSTLTS/SATA	6	1.3%
Other (EPA LNO)	1	0.2%
Total	472	

NIOSH Activities

- Rostering
- Health Hazard Evaluations (HHEs)
- Technical Guidance and Communication
- Health Surveillance
- Toxicity Testing



**Worker repairing boom
(HHE participant)**

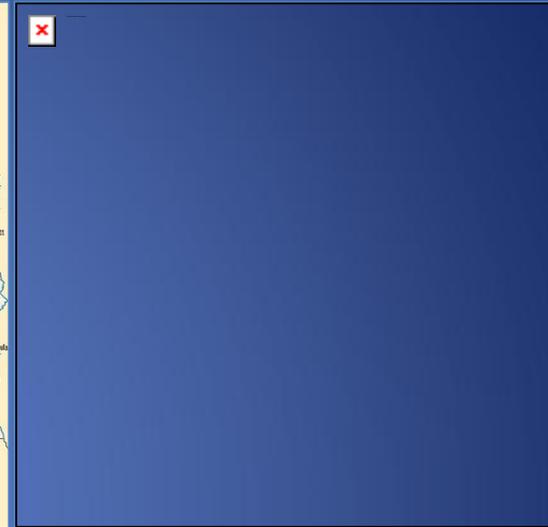
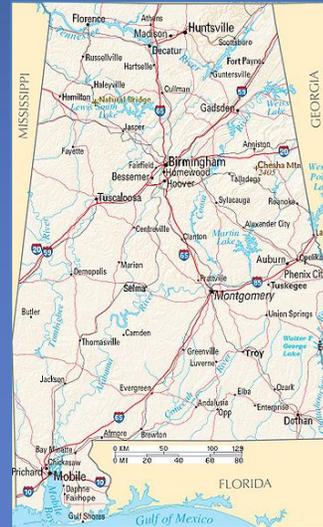
Rostering

- Rostered over 52,000 response workers
- Staging areas and training sites
- Paper-based and web-based
- BP employees, contractors, federal and state employees, volunteers



Rostering Workers
in LA

Deepwater Horizon Response Worker Rostering



**Paper & Electronic Records
As of 10-12-10**

Total Collected: 55,533

Targeted Workers

- BP Staff**
- BP Contractors**
- Volunteers**
- Federal**
- State & Local**

	Percentage
Male	81%
Female	19%
Asian	3%
Hispanic	8%
Black	36%
All Others	53%

Health Hazard Evaluations: Six Work Categories

On Shore Evaluations:

- Beach clean-Up
- Wildlife rehabilitation
- Equipment decontamination and waste stream management

Off Shore Evaluations:

- Source Control
- In-situ burns
- Booming, skimming, dispersant operations



HHE staff at
source control

Beach Cleanup



Decontamination of Vessels



Near-Shore / Off-Shore Environment



Dispersant Application





In-Situ Burns

Evaluated Workers at the Source



NIOSH-OSHA Interim Guidance

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Workplace Safety and Health Topics

Deepwater Horizon Response

► **Interim Guidance for Protecting Deepwater Horizon Response Workers and Volunteers**

Medical Pre-Placement Evaluation

Chemical Exposure Assessment

Tips for Deepwater Horizon Response Workers

Respiratory Protection Recommendations

Summary of Potential Hazards

Key Safety and Health Topics

[NIOSH](#) > [Workplace Safety and Health Topics](#) > [Deepwater Horizon Response](#)

DEEPWATER HORIZON RESPONSE



Interim Guidance for Protecting Deepwater Horizon Response Workers and Volunteers

07/26/2010

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services and Occupational Safety and Health Administration, U.S. Department of Labor

Recommendations contained in the Interim Guidance will be updated as more information about exposures is collected and assessed in relationship to the incidence and prevalence of symptoms, illnesses and injuries.

The recommendations provided in this Interim Guidance focus on issues specific to the Deepwater Horizon Response and do not address issues common to all disaster response work activities. For more information on general disaster response, consult the NIOSH Emergency Response Topic Page at <http://www.cdc.gov/niosh/topics/emergency.html>.

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NIOSH Interim Guidance: Medical Pre-Placement

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Workplace Safety and Health Topics

Deepwater Horizon Response

Interim Guidance for Protecting Deepwater Horizon Response Workers and Volunteers

► **Medical Pre-Placement Evaluation**

Medical Pre-Placement Evaluation Indicators for Health Professionals

Chemical Exposure Assessment

Tips for Deepwater Horizon Response Workers

Respiratory Protection Recommendations

Summary of Potential

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NIOSH Interim Information

07/21/2010

DEEPWATER HORIZON RESPONSE

Medical Pre-Placement Evaluation For Workers Engaged in the Deepwater Horizon Response

The objective of these recommendations is to provide guidance for health professionals who provide primary care to workers or volunteers who may be involved with the Deepwater Horizon response. The recommendations describe a plan for pre-placement evaluation to gather medical information on workers prior to beginning oil spill response work. The pre-placement evaluation is not a formal fitness for duty examination, but is designed to 1) provide health professionals with guidance on the important elements of such a pre-placement evaluation; 2) help health professionals identify individuals with health concerns that need to be addressed, identify individuals with specific susceptibilities whose activities may need to be restricted or modified, and identify medication, immunization or training needs; and 3) provide valuable information to the worker on his/her health status and potential demands of the work they will encounter. Additionally, this evaluation will provide some documentation of the worker's health status, and may provide an opportunity for the worker to be directed to further medical evaluation.

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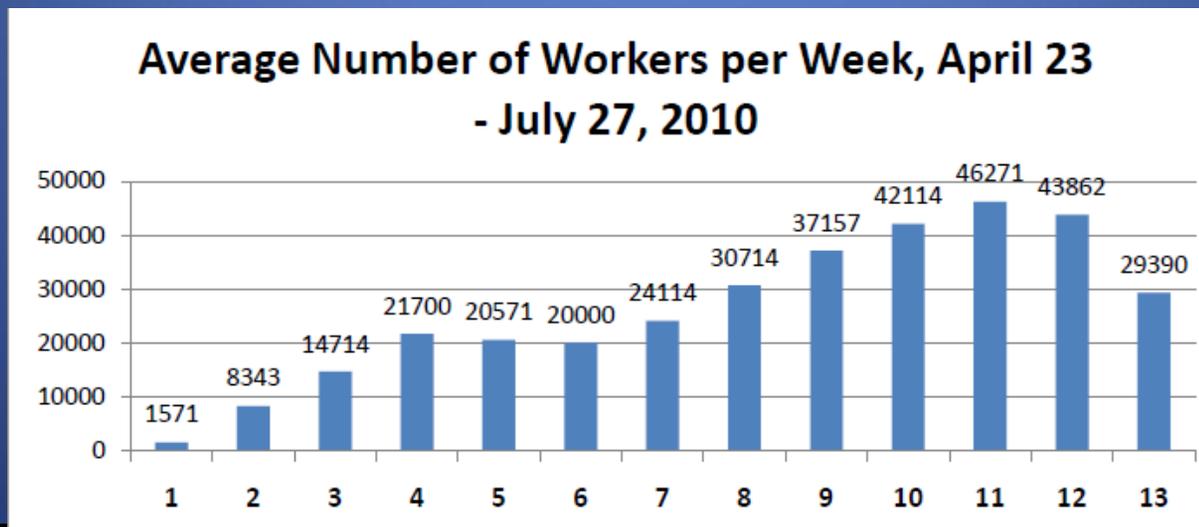
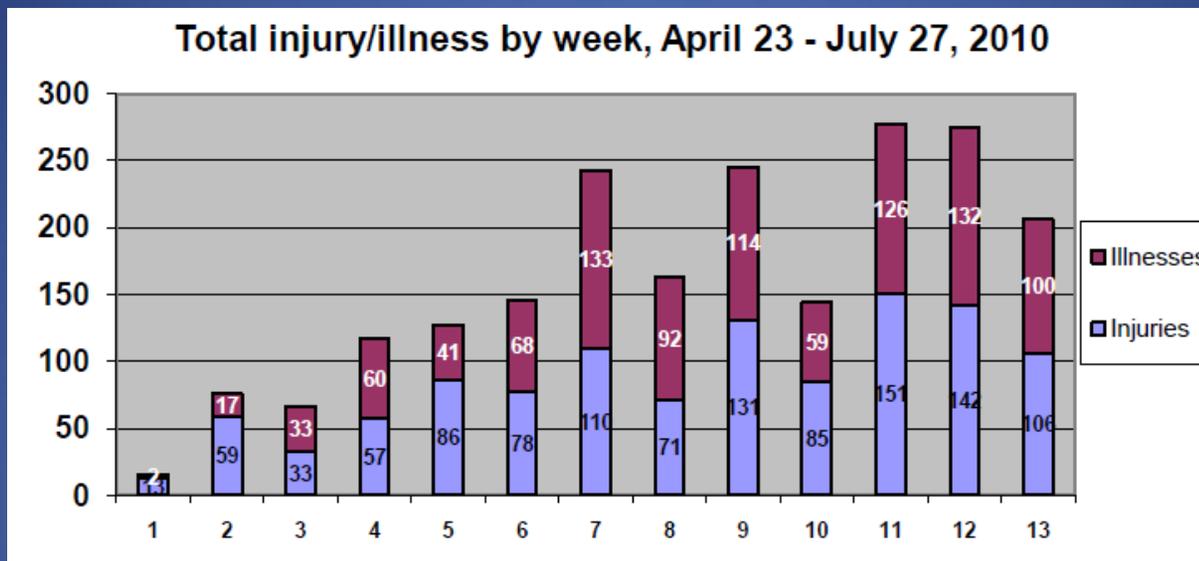
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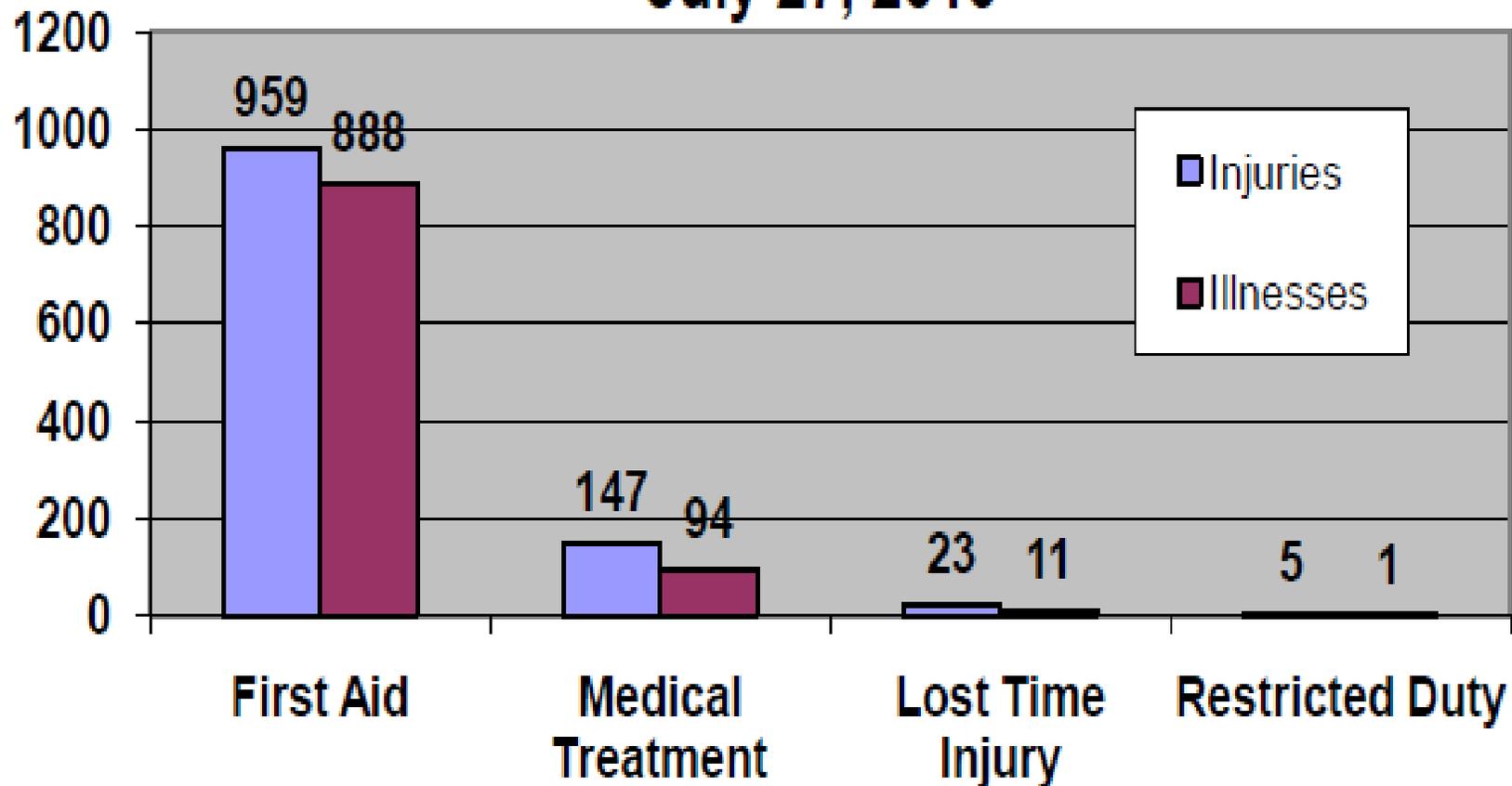
National Institute for Occupational Safety and Health

NIOSH Analysis of BP Injury and Illness Report (April 23 – July 27)

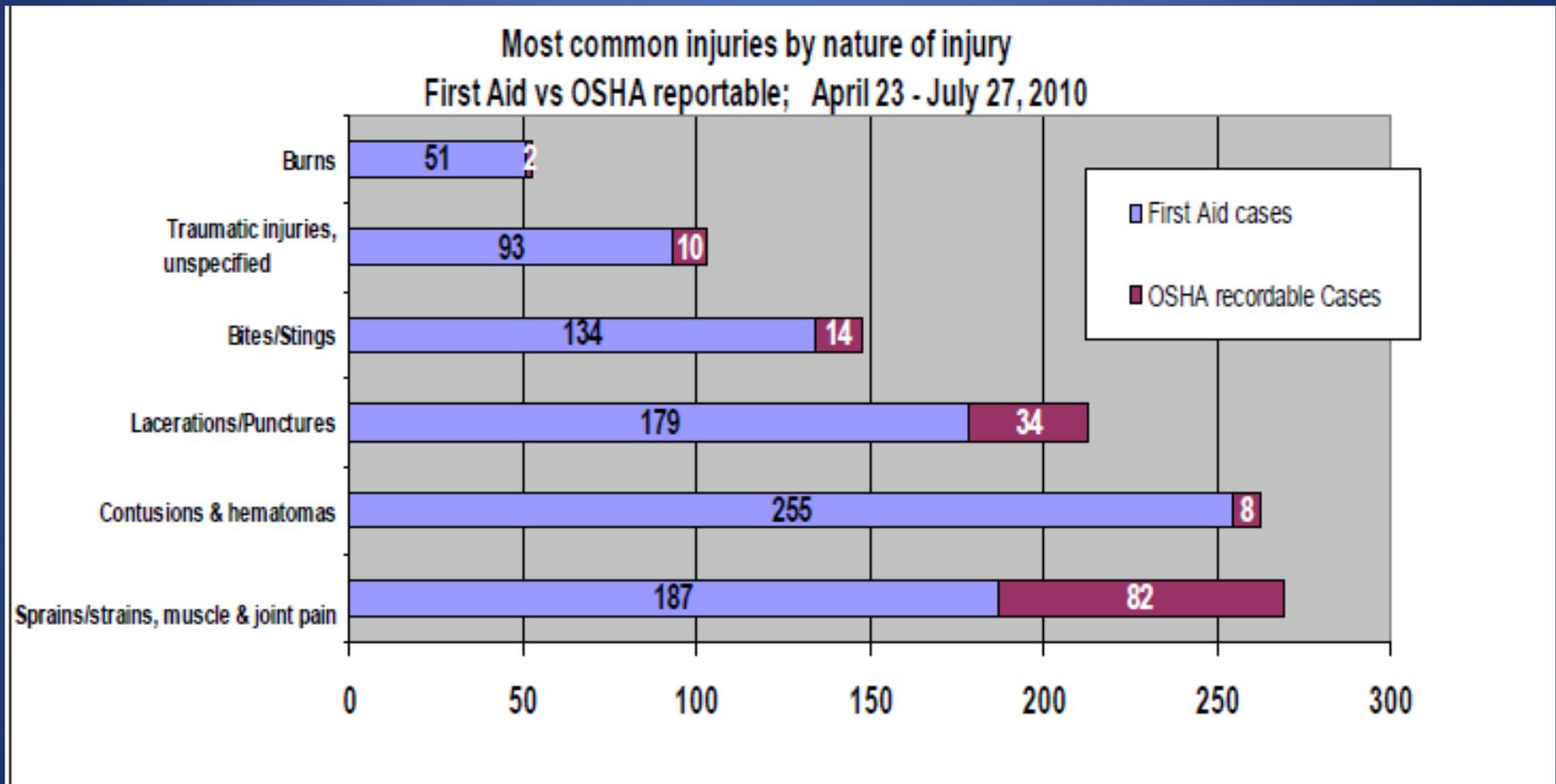


NIOSH Analysis of BP Injury and Illness Report (April 23 – July 27)

Total injury and illness by severity, April 23 - July 27, 2010

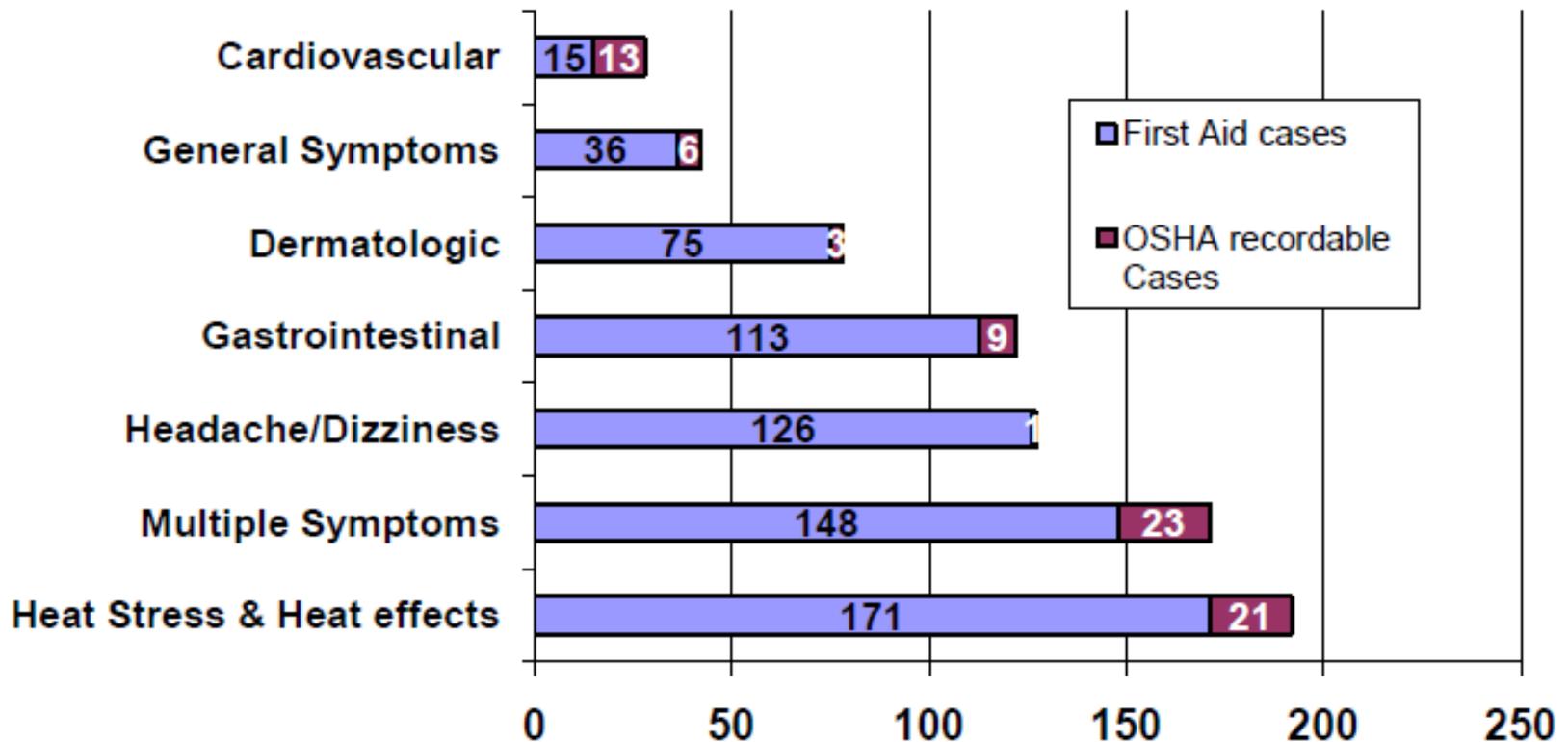


NIOSH Analysis of BP Injury and Illness Report (April 23 – July 27)



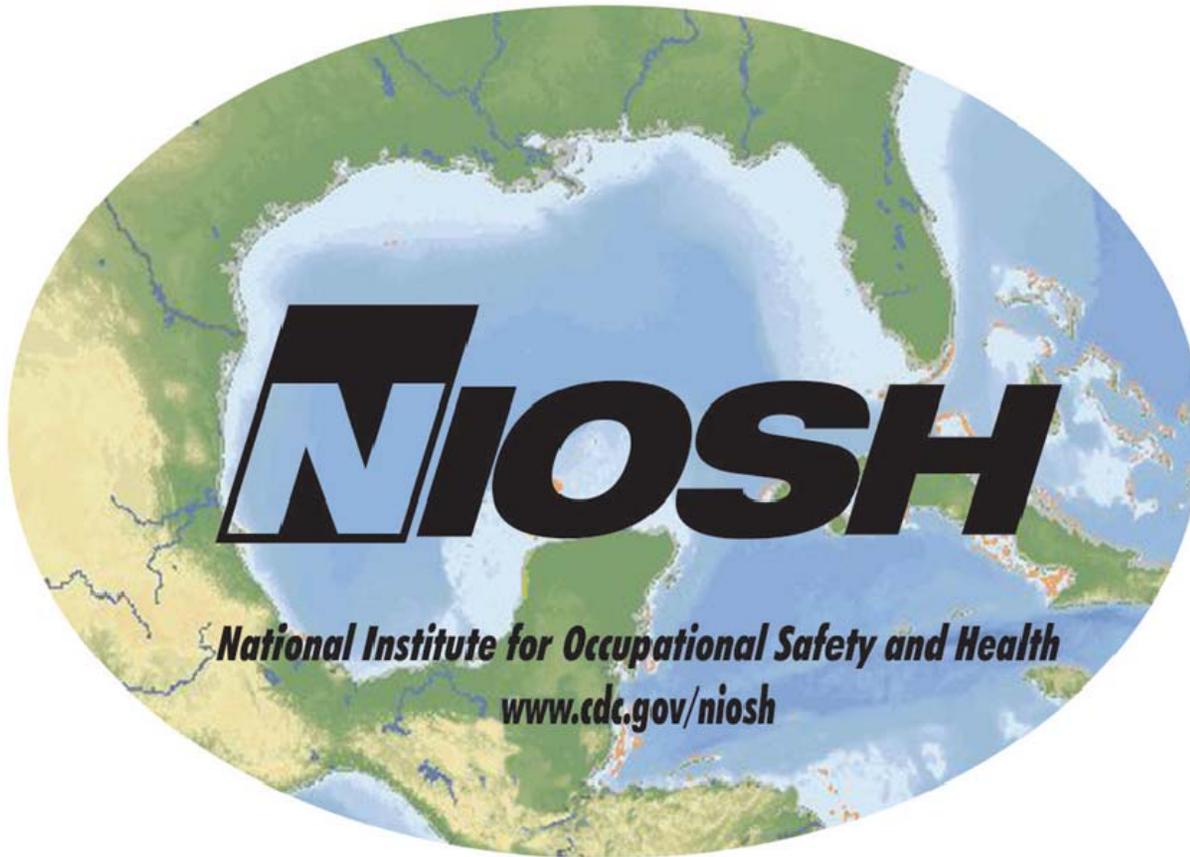
NIOSH Analysis of BP Injury and Illness Report (April 23 – July 27)

Most common illnesses by nature of illness; First Aid vs OSHA recordable, April 23 - July 27, 2010



Toxicity Testing

- **Acute animal testing ongoing with:**
 - Dispersant (Nalco Corexit 9500A)
 - Crude Oil from the source (sample from well head obtained May 23rd)
 - Dispersant/crude oil mixture
- **Inhalation studies**
 - Measuring pulmonary, cardiovascular, and CNS outcomes
- **Dermal studies**
 - Assessing hypersensitivity and immune-mediated responses



Questions?