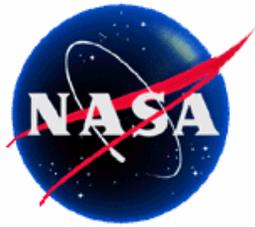




Stennis Space Center Safety, Medical and Environmental Health Overview

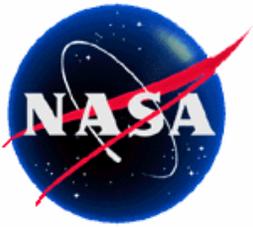
NASA Safety and Health Managers' Meeting
February 28, 2007

Glen Liebig
Office of Safety and Mission Assurance
Stennis Space Center



Presentation Agenda

- **Topics-**
 - **Changes from 2006**
 - **Environmental Health**
 - **Industrial Hygiene**
 - **Health Physics**
 - **Employee Assistance Program**
 - **Industrial Safety Programs**
 - **Project Safety Support**
 - **Trends**



Changes from 2006

Center was reorganized three ways:

- Organization
- Program/Project
- Human



Organizational Reorganization

- Organization Reorg May 2006
- Major:
 - Combined Propulsion Test Directorate and Earth Sciences Directorate into one Engineering Directorate
 - Created a separate Project Directorate
- Minor:
 - Moved Industrial Hygiene responsibility from the Office of Safety and Mission Assurance and placed it in the Environmental Office within the Center Operations Directorate



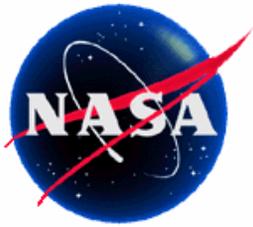
Programmatic Reorganization

- Less R&D within E-Complex
- Removal of SSME test capability on A-1 Test Stand-
modify for J2X
- Assignment of NASA personnel within areas that have
been historically been contractor (Facility Management on
the Test Stands and support Facilities)
- Triple focus- maintain SSME, modify for Constellation,
sustain small scale R&D capability
- Tremendous amount of construction and infrastructure
repairs due to Katrina



Human Reorganization

- Higher than normal personnel turnover rate due to Katrina and hiring SSC personnel to staff NSSC
 - Normal annual attrition rate for SSC is <5%, 2006 was 18%
 - Reduced some skill levels as demands increased
- Internal reorganization and creation of positions with new requirements- lots of growing pains
- Rebuilding efforts resulting in little “downtime” for personnel- many just now getting back into homes
- Many local cultural changes
- Personal evaluation of priorities



Environmental Health

- Continued staff turnover in 2006
 - Senior Industrial Hygienist
 - Safety & Industrial Hygiene Manager
 - Safety, Health, & Environmental Manager
- Difficulty recruiting post-Katrina
- Completed filling vacancies with highly qualified candidates in January 2007
- Programs getting back on track



Industrial Hygiene

- Completed 74% of proactive sampling of similar exposure groups during 2006
 - Goal to complete 100% in 2007
 - Adding Chromium Six, Heat Stress and CO exposure
- Very active construction program a challenge
 - Hurricane related repairs
 - Engine test stand renovations for Constellation Program



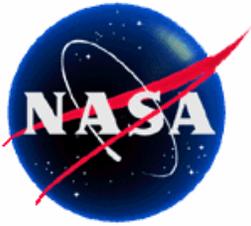
Industrial Hygiene

- Ergonomics Steering Committee established
 - Coordinate multi-employer ergonomics program
 - Develop standard assessment tools, share best practices, fill training needs, promote awareness
 - Office vs. Industrial injuries (SSC is seeing more industrial)



Health Physics

- Internal Audits
 - Ionizing radiation audit January 2007
 - Non-ionizing radiation audit February 2007
 - Includes NASA contractors and tenants
 - Found excellent compliance
- Focusing on continued improvements
 - Working through Radiation Safety Committee to better coordinate programs
 - Committee includes NASA and contractors, radiation and laser ops



Employee Assistance Program

- Continue pre-Katrina functions
- Focus on Critical Incidence Stress Management Activities related Katrina Trauma and recovery
 - Assistance Provided to Stennis EAP from NASA Occupational Health (CISM expert provided for consultation), Visiting EAPs from other Centers, Navy Fleet and Family Services, and contractor corporate EAPs.
 - Initial activities focused on providing psychological first aid to employees (including first responders), and visitors seeking shelter at Stennis
 - When employees returned to work the focus shifted to education on recognizing and coping with normal responses to traumatic events.
 - Katrina website
 - All hands meetings
 - Safety meetings
 - Small work groups site wide
 - Visits to employees relocated to JSC and MSFC
 - Michoud/Stennis collaboration for a series of intense 2 day Peer Support/CISM trauma workshops



Employee Assistance Program

CISM EAP Counselor Education

- Participation in CISM team training at NASA Headquarters
- EMDR trauma therapy training (Part I-Biloxi, Part 2- Hattiesburg)
- Shadow NASA CISM consultant during Peer Support workshops
- NASA Occupational Health Conference: "Disaster Preparedness for a Healthier NASA"
- Coping with Grief (Jan 07)



Employee Assistance Program

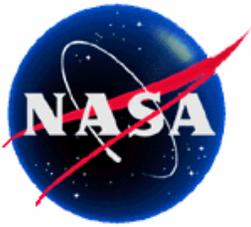
- Continue emotional support with individual Katrina recovery issues (to include EAP contact with those employees who have not moved into permanent housing)
- Partner with OH Clinic on behavior modification counseling related to smoking cessation and weight loss
- Increase consulting response to OH Clinic when clients present with mental health concerns
- Continue monthly site-wide satellite broadcast of Drug-Free Workplace Education Programs



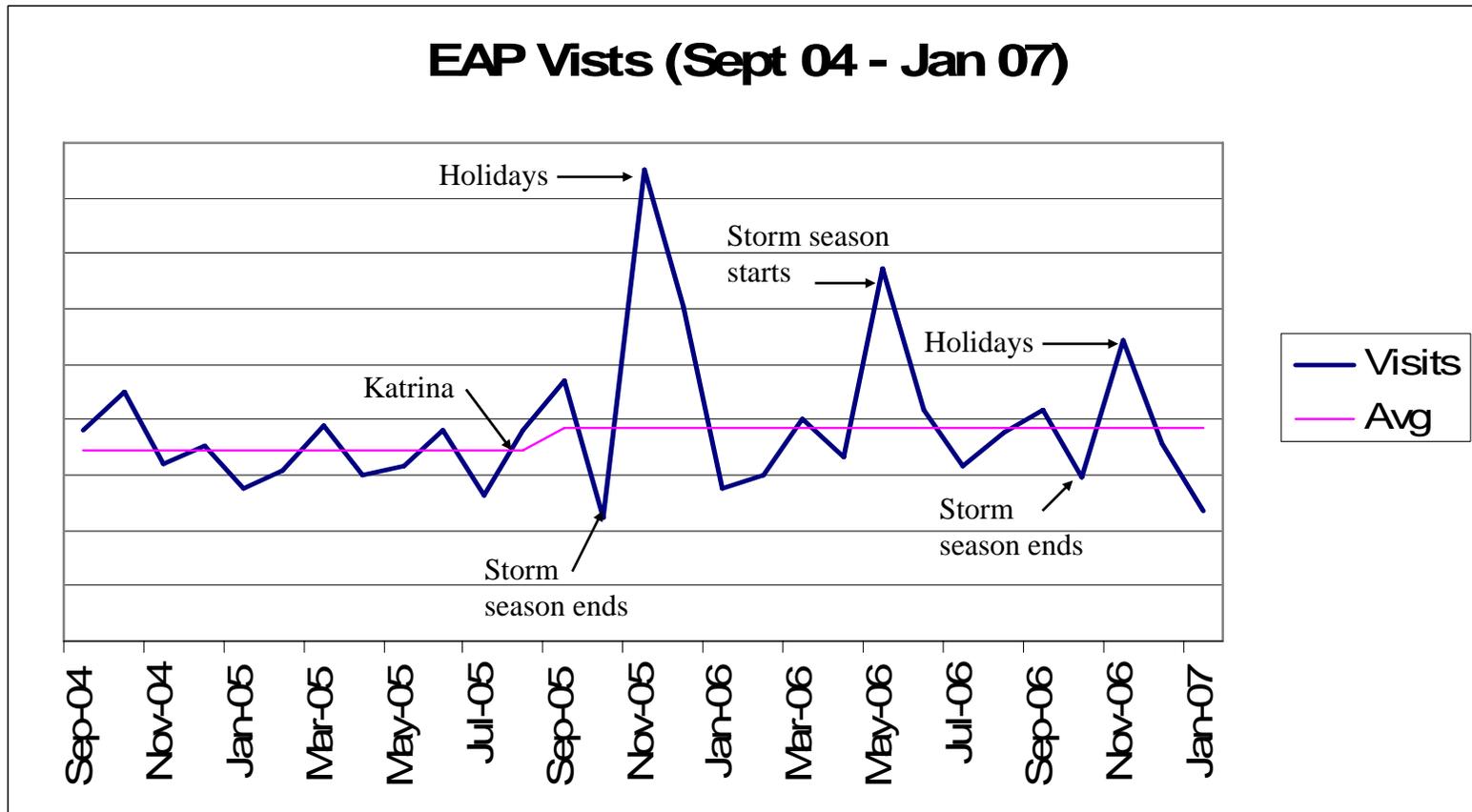
Employee Assistance Program

Current Trends:

- Increase in depression, substance abuse and family conflict (including separation and divorce) with long term effect of hurricane stress.
- Grief issues intensified with family deaths since Katrina



Employee Assistance Program (units in 100)

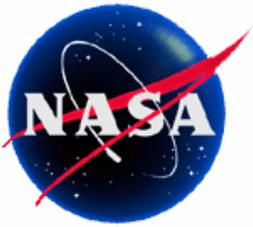




Industrial Safety Programs

Positives:

- IFO audit in August 2006-
 - 0 Critical Non-Compliances
 - 79 Minor findings and observations
 - 10 Commendations/Best Practices
 - Working off minor findings and observations
- Construction safety is one of the best in NASA
- Beginning VPP planning
- Striving To Achieve Real Safety (STARS)
- Focusing on standardized PPE application across the site



Industrial Safety Programs

Challenges

- Multiple tenants and commercial operations
- More requirements without resources
- More project requirements without headcount

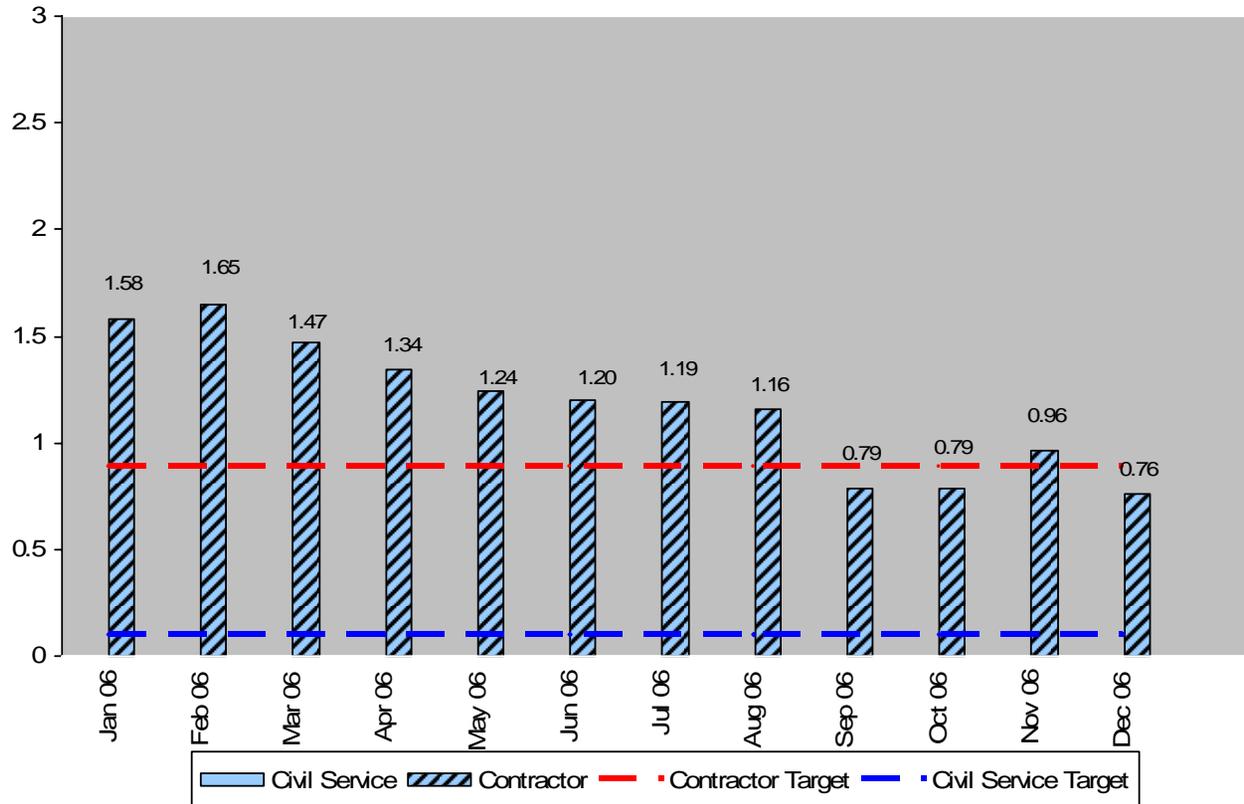


Project Safety Programs

- Reduced effort for R&D projects
- Increased test stand modification work
 - Modification of A1 test stand
- Implementing formal Systems Safety Program
 - Increased analysis workload
 - Creating work instructions and internal requirements
- Increased NASA presence within the test complex



Trends (LTIR) Jan 07





FY 07 YTD Lost Time/Restricted Duty Summary

As Of January 20, 2007

Date Of Injury	Organization	Mishap Description	Total	Discussion Days	Status
LOST TIME CASES					
1) 10/18/06	MSS	Electrician: Ankle/Bruised			5
2) 11/07/06	Dungan	Surveyor: Ankle/Sprained			1
3) 11/16/06	Dungan	Surveyor: Foot/Cut		20	
RESTRICTED DUTY ONLY					
1) 11/21/06	Madison	Env. Tech: Knee/Strain		60	
2) 12/07/06	MSS	Cook: Hand/Cut		18	



Questions
