



**MSFC**

# **Safety and Health Manager's Meeting 2005**

Dennis Davis  
Industrial Safety Team Lead

George C. Marshall Space Flight Center

February 1 – March 4, 2005

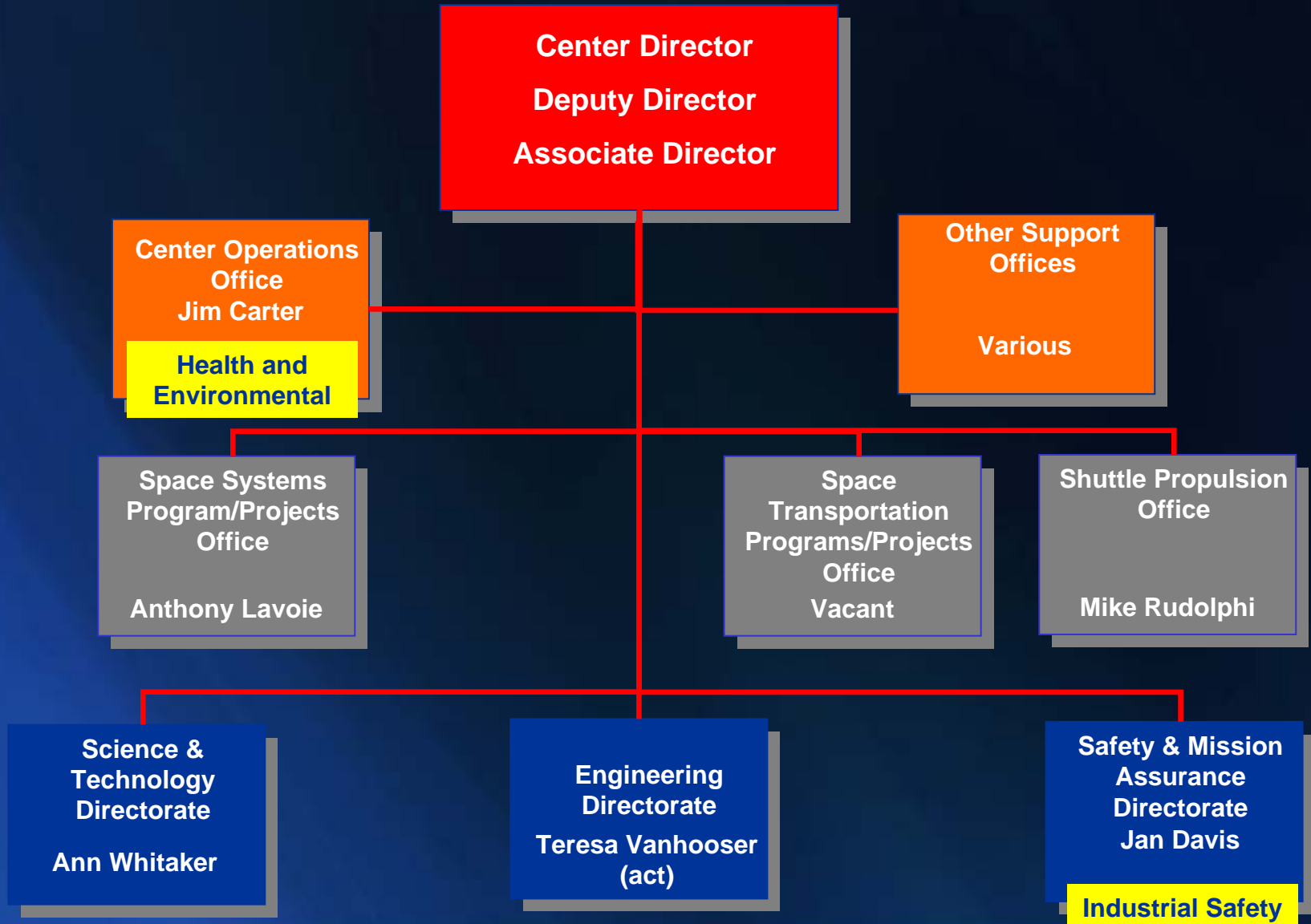


# Agenda

- **How We've Reorganized**
- **Things We're Already Doing**
  - **Supervisor Safety Web Page (SSWP) Improvements**
  - **Inventory of Hazardous Operations (IHOPS)**
  - **SHE Finding Tracking System (SHEtrak)**
  - **Customer Searching System (Safety Search)**
  - **Contractor Self-Evaluation Recognition System**
  - **3<sup>rd</sup> Party Assessment**
- **Things We're Working On**
  - **Simplified Employee Reporting Process**
  - **Top Level Risk Assessments**
- **How We're Doing**
- **Something We're Recommending - Risk Safe 6**
- **A Mishap We've Had - High Pressure Fitting Mishap**



# How We've Reorganized (Simplified)





# Things We're Doing

## Supervisor Safety Web Page

- Quick, easy web-based recordkeeping for safety meetings and walk-throughs (Civil Service and Contractors)
- Instant graphic metrics by organization with drill down capability to sub-organizations
- Supporting information (i.e. Presentation charts, inspection checklist, personnel listings, etc.)
- New – Built-in Finding and Action tracking system with automatic work order generation or e-mail notification

**Supervisors Safety Web Page**

SSWP - Supervisor Menu

- Safety Meetings
  - New Safety Meeting
  - All Safety Meetings (includes adding actions)
  - All Safety Meetings (includes adding actions)
  - All Actions
  - View Print Action Safety Meetings And Associated Actions
- Safety Walks
  - Display Checklists
    - Display Inspection Safety Inspection Checklist
    - Display Safety Compliance Checklist (Detailed)
  - All Safety Walk (includes adding findings)
  - All Findings
  - View Print Action Safety Walk And Associated Findings
- NRE Checklist
  - Ins. Program Checklist
  - Office and Work Environment Area Checklist
  - Inventory of Document Generation (R.R.P.)
  - Supervisor's JAR Training Guide
- Listings
  - View JAR Check Action
  - View JAR Open Findings
  - Findings Report
  - View Actions and Findings by Individual
  - View Findings by Job Organization

**Supervisors Safety Web Page**

Percentage of Diagrams Completed for DWR in February 2007

View All Meetings Completed for DWR in February 2007

Org.	Diagrams Completed	Diagrams Pending
0000	100%	0%
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0100	100%	0%

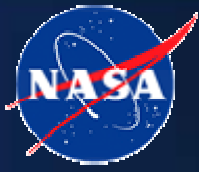
Click here to register for an e-mail notification.

By Order of the Director of the Department of Energy, 12/17/07

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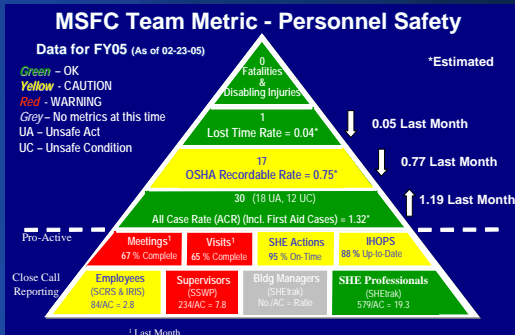
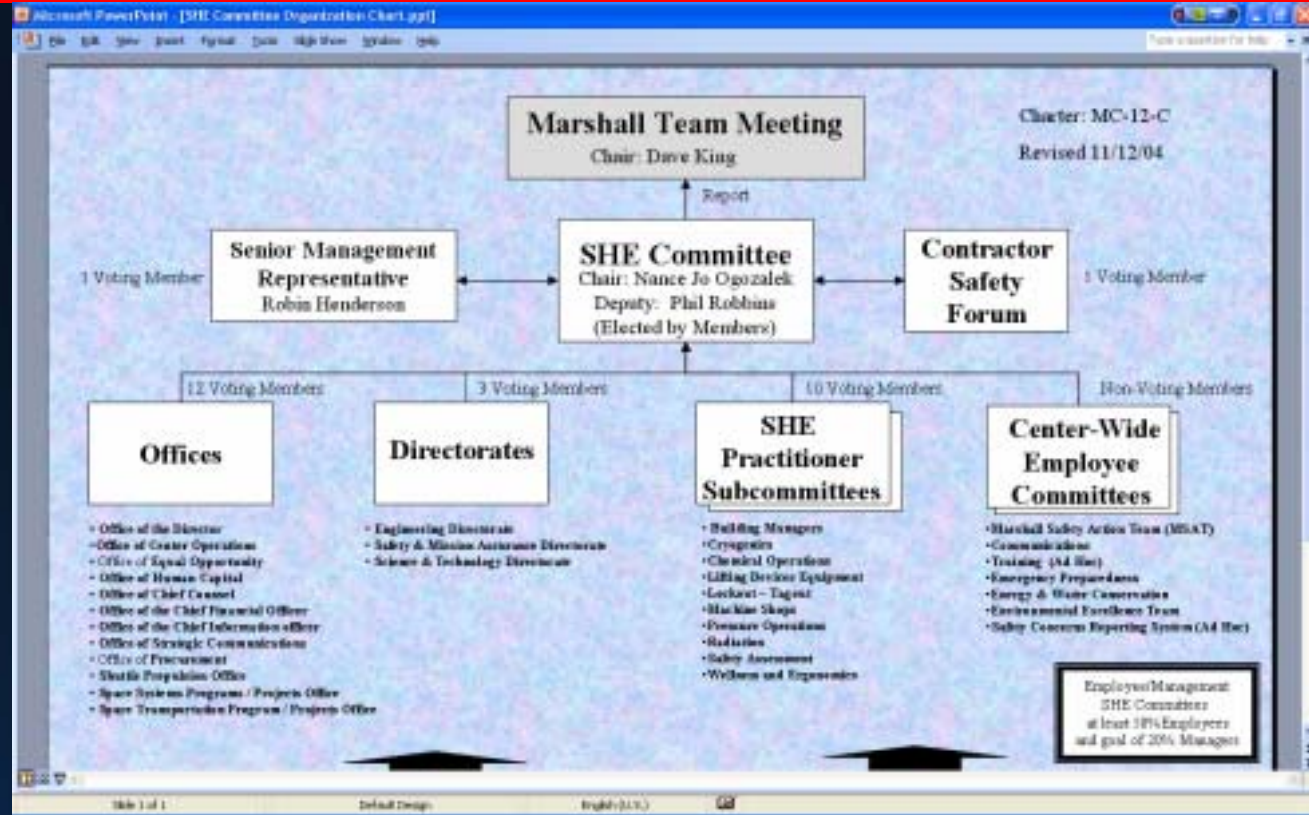
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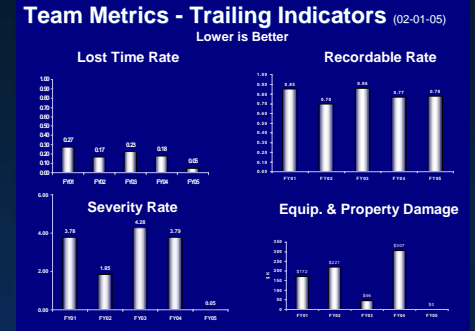
# Things We're Doing

## SHE Committee

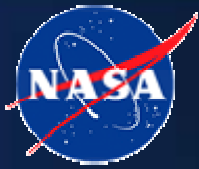
- New arrangement, more employee involvement
- Subcommittees
  - Practitioner
  - Center-wide issues
- Contractor Safety Forum
- Monthly Marshall Team Meetings with metric presentations
- Currently looking at ways to improve



Org	SHE Program Metrics														Results			
	% Absent	% Complete	Supv. Visit (Last Month)	Supv. Finding's Rate	IHOP	Actions										Mishaps		
						SHECATS	Mishaps	SHEtrak	SCRS	Injury	Loss							
DA	51	100	0	NA	**	0	0	0	0	0	0	0	0	0	0	0	0	0
CS	50	81	0	NA	**	0	0	0	0	0	0	0	0	0	0	0	0	0
HS	81	100	25	82	**	1	0	1	0	1	0	2	2.02	0	0	0	0	0
IS	93	84	0	100	**	0	0	3	0	0	0	0	0	0	0	0	0	0
LS	67	100	0	NA	**	0	0	0	0	0	0	0	0	0	0	0	0	0
OS	67	100	0	NA	**	0	0	0	0	0	0	0	0	0	0	0	0	0
PS	78	100	0	100	**	0	0	0	0	0	0	0	0	0	0	0	0	0
RS	65	100	0	NA	**	0	0	0	0	0	0	0	0	0	0	0	0	0
MP	43	100	0	100	**	0	0	0	0	1	0	0	0	0	0	0	0	0
NP	18	0	0	NA	**	6	6	0	0	0	0	0	0	0	0	0	0	0
SP	69	43	0	NA	**	9	4	6	0	0	0	0	0	0	0	0	0	0
QD	70	91	0	NA	**	1	0	0	0	1	0	0	0	0	0	0	0	0
AD	90	83	14	100	**	2	0	22	2	10	0	12	3.19	0	0	0	0	0
ED	68	60	35.0	82	**	2	0	134	0	3	0	3	0.58	0	0	0	0	0
XD	70	100	0	78	**	1	0	182	11	1	0	0	0	0	0	0	0	0







# Things We're Doing

## IHOPs

- Web based log for hazardous operations with listing of assessments
- Checklists to help assure code compliance
- Each Entry Checked by Industrial Safety
- Responsible organization must update at least annually
- Automatic e-mail reminders

**Inventory of Hazardous/Potential Hazardous Operation At MSFC**  
 \* An Associated Checklist contains a NO answer.

ID	Building Name/Area	Operation/Description	Prob Level	Point of Contact	Submitting Org	Requested Exp	Reviewing Date	Rate of 1 or 2 or 3 or 4 or 5	Status	Reviewed By	Status
10001	MSFC High Bay 1 Shop	Machine work/Overhaul/Operation	1	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10002	MSFC High Bay 1 Shop	Machine work/Overhaul/Operation	1	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10003	MSFC 30	Welding and Thermal Operations	4	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10004	MSFC 30	Thermal Electrical Operations	4	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10005	MSFC Vehicle Lab	Control System Operations	1	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10006	MSFC 30	Pressure System Operations	1	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10007	MSFC 30	Pressure System Operations	1	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10008	MSFC High Bay 1 Shop	Welding Operations	1	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10009	MSFC 30	System Upgrade/Operations	4	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail
10010	MSFC High Bay 1 Shop	High Voltage (Over 600V) Operations	4	MSFC/Industrial Safety	MSFC	01/01	12/15/2011	1000000	Ready for Review		Fail

**Checklist: Items of Use**

Item	Checklist: Items of Use	Yes	No	Risk
1	Have the operator been instructed in the correct operation of the cradle/lift in accordance with manufacturer's operating instructions? NOTE: A cradle/lift operating procedure is to be maintained in the area where the cradle/lift is operated.			
2	When a lift is used it is assembled and thoroughly checked with correct clearing height? NOTE: Clearance to the main crane of cradle/lift is to be maintained.			
3	Have the operator been instructed to take extra precautions when cradling/carrying/clearing? NOTE: Cradle/lift is to be used in accordance with manufacturer's instructions.			
4	Has the operator been instructed to use correct cradling/carrying/clearing when extra precautions are needed? NOTE: If applicable, have the operator maintain a cradling/carrying log book? NOTE: A log book must be kept for every cradling/carrying/clearing activity to be used in the area. NOTE: The operator must maintain the correct log and make the crane/lift and only sign off on the log before use. NOTE: Damaged or defective cradles are to be replaced before use.			
5	Have operators been instructed NOT to lift cradles/lifts above the maximum level recommended by the manufacturer? NOTE: Operators have been instructed NOT to operate the cradle/lift in excess of the manufacturer's recommended maximum speed? NOTE: Operators must be instructed to stop before turning the cradle/lift OFF. NOTE: Entry bars should be locked before starting of cradle/lift and a sign posted on the crane. NOTE: The operator must be instructed to ensure that the crane is in a safe position before operating the cradle/lift. NOTE: The operator must be instructed to ensure that the crane is in a safe position before operating the cradle/lift. NOTE: The operator must be instructed to ensure that the crane is in a safe position before operating the cradle/lift. NOTE: The operator must be instructed to ensure that the crane is in a safe position before operating the cradle/lift.			
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# Things We're Doing

## SHetrak

- Web Based Safety Health and Environmental finding tracking system
- Handheld input capability
- Violation and code listings
- Direct input by responsible actionee
- Automatic interface with Facilities Work Order System
  - Automatic Work Order Generation
  - Automatic Work Order Closure Notification
- Automatic E-mail ticklers
- Abatement plan and closure review process

SHetrak

Welcome to the SHetrak Application

Propositions In Process				Findings In Review					
Proposition	Number of Findings	Number of Open Findings	Status	APR	Findings	Violation	Number of Open Findings	Actual	WFO
Contractor - Safety Self Inspection	2	1	Working Not Released	CONTR HUTCHINSON	2222	PLUMBING MATERIALS / COMBUSTIBLE LIQUIDS (ARE NOT STORED PROPERLY - stored improperly stored)	07	Working Closed HUTCHINSON	PERMANENT HUTCHINSON
Self - Safety Annual Inspection	22	0	New Contractor	SELF HUTCHINSON					
Self - Safety Annual Inspection	2	0	New Contractor	SELF HUTCHINSON					
Self - Safety Annual Inspection	2	0	New Contractor	SELF HUTCHINSON					
Self - Safety Annual Inspection	1	1	New Contractor	SELF HUTCHINSON					

The application is used to track Safety, Health and Environmental inspection findings of FPC.

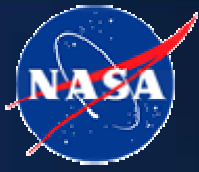
[Get complete view](#)

Home | Home Issues | Issues/Findings | Status | Center - Drive Drive | Home - On Line Drive  
Logout | Logout Issues | Logout

Safety Reporting System | NASA Web Privacy Statement

Safety Classifications and Codes Listing  
All Safety Codes

Code	Description	Recommended Action	Reference
000A	PORTABLE APPLIANCE DOES NOT HAVE AN APPLIANCE PERMIT	Obtain and post permit for portable appliance	MNF 4713.31 Section 6.8
000B	CUPPER POT DOES NOT HAVE PORTABLE APPLIANCE PERMIT	Obtain and post permit for Copper Pot	MNF 4713.31 Section 6.8
000C	HEAT GUN DOES NOT HAVE A PORTABLE APPLIANCE PERMIT	Obtain and post permit for Microwave Oven	MNF 4713.31 Section 6.8
000D	ELECTRIC HEATER DOES NOT HAVE A PORTABLE APPLIANCE PERMIT	Obtain and post permit for Electrical Heater	MNF 4713.31 Section 6.8
000A	ELECTRICAL RECEPTACLE(S) COVER(S) MISSING/DEFECTIVE	Repair/Replace Missing/Defective Electrical Receptacle(s)/Cover(s)	28 CFR 19A.309(a)
000B	ELECTRICAL RECEPTACLE(S) WITH HOT AND GROUND REVERSED	Electrical Receptacle(s) with hot and ground reversed/Repair/Replace	28 CFR 19A.309(a)
000C	ELECTRICAL RECEPTACLE(S) WITH REVERSED POLARITY	Electrical Receptacle(s) with Reversed Polarity/Repair/Replace	28 CFR 19A.309(a)
000D	ELECTRICAL RECEPTACLE(S) WITH OPEN GROUND	Electrical Receptacle(s) with Open Ground/Repair/Replace	28 CFR 19A.309(a)
000E	ELECTRICAL RECEPTACLE(S) WITH OPEN NEUTRAL	Repair/Replace Electrical Receptacle(s) with Open Neutral	28 CFR 19A.309(a)
000F	RECEPTACLE OUTLET BOX DEFECTIVE	Repair/Replace Defective Receptacle Outlet Box	28 CFR 19A.309(a)
000G	STRUCK NEUTRAL IS MISSING/DEFECTIVE ON ELECTRICAL PLUG	Repair/Replace Missing/Defective/Unsafe Label on Electrical Plug	28 CFR 19A.309(a)
000H	W/ ELECTRICAL W/OUT GROUNDING	Work on Electrical Receptacle/Work on	28 CFR 19A.309(a)



# Things We're Doing

## Safety Search

- Customer friendly web page for searching all SHE related database for open actions
- Master Chart provides numbers of open and late findings with links to detail listing!



SHEtrak Master Chart - Safety, Health and Environmental Findings by Area Manager  
Saturday, February 26, 2005

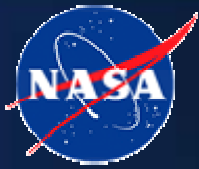
AREA MANAGER	FWO	OPEN	LATE
AD01: JIM CARTER	2	0	0
AD10: ALLEN ELLIOTT	2	0	0
AD20: TIM CORD	22	21	1
AD40: ROY GURNS	24	11	1
AD50: OWEN JOHNSON	2	1	0
DE: ROGER HENDERSON	16	11	1
ED: TERESA VANHOOKER	270	222	1
EO: DENNIS SMITH	0	0	0
ET: PETE RODRIGUEZ	2	2	1
HA: TERESA WASHINGTON	2	1	0
IS: JOHN MCDONAGLE	21	2	0
MP: MEE BUCKPHE	0	1	0

Page 1 of 2

Findings	Building	Room	Location	Codes/ Violations	Status	Due Date	Max. Fines
11064	4207	100/B	4207	ALUCHO ALARM IS NEEDED IN AREA 2800 VISUAL ALARM IS NEEDED IN AREA	Closed	01/07/2005	
11071	4491	E3	Room E3 Panel South of PNL LP	IS/PROPER LOCKOUT/TAGOUT Tag Not Filled Out Properly	Closed	01/16/2005	
11082	863A/B	8204		IS/ PROPER personnel took over four minutes to determine where the alarm was, and who was going to stay. This indicates either an outdated plan or failure to follow the established evacuation plan.	Closed	01/08/2005	
11106	4207	B2		ELECTRICAL PANEL NOT PROPERLY LABELED TO INDICATE FUNCTION OR EQUIPMENT BEING POWERED	Closed	02/10/2005	
11106	4207	37A/E-		WATER ON FLOOR CREATED SLIPPING HAZARD	Closed	02/10/2005	
11106	4207	127	E-3	WATER ON FLOOR CREATED SLIPPING HAZARD	Closed	02/10/2005	
11118	4207	B-11	066/24	ELECTRICAL PANEL NOT PROPERLY LABELED TO INDICATE FUNCTION OR EQUIPMENT BEING POWERED	Closed	02/10/2005	

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# Things We're Doing

## Contractor Self-Evaluations

- Contractors required to self-evaluate their S&H program based on VPP elements
- Scores verified by S&MA review
- Contractors with high scores recognized
  - Level I - Public Award Presentation at MTM
  - Level II – Formal letter of commendation

### Contractor Evaluation System

Score	Commitment and Involvement (Element 1)		Worksite System and	Hazard Prevention	Safety and Health
	A. Management	B. Employee	Analysis (Element 2)	and Control (Element 3)	Training (Element 4)
10	Benchmarking indicates "best in Class." In areas of visible management leadership, responsibility/accountability, meaningful metrics, and incentive/recognition systems.	Employees fully involved, safety committees functioning well, is a complete behavior process functioning at least one year, employees involved in process planning and risk assessment.	All subelements fully in place and functioning well for at least one year.	All programs and subelements fully functioning for one year. Strong professional support.	All training processes functioning, all levels of personnel trained to identified needs, management training ongoing.
9	All subelements are in place and functioning well, but have as yet to reach full maturity.	All processes functioning but for limited time, employees involved to great extent.	All subelements in place, employees actively participating.	All programs and subelements in place and functioning.	All training processes established, management initial training complete.
8	One subelement not fully in place but all are being implemented.	Most processes in place, employee involvement growing.	All subelements functioning, employee participation growing.	At least five subelements functioning and one in final stage of implementation.	Most personnel trained to identified needs, training recordkeeping and recall system functioning.
7	Two subelements not fully implemented. Implementation in process on all elements. Employee participation and commitment widespread.	Process activities expanding through organization. Committees and teams functioning.	At least five subelements functioning and remainder established.	At least four subelements functioning, remaining two developing.	Management and supervisor training in process, specialized training in process.
6	All subelements in process or in place. Strong management leadership and commitment begun, metric systems in place, resourcing appropriate.	Employee representatives functioning, joint committees functioning, participating in risk assessment and accident investigation.	At least four subelements functioning and remaining three in process, employee participation beginning to spread through organization.	Medical and safety programs strengthening. Emergency preparedness program established and exercised.	Management training in process developed, supervisor training developed, training recordkeeping and recall system developed.
5	Management commitment and leadership accepted by workers, worker participation and commitment begun, metric system.	Employee representatives appointed/elected, committees beginning to perform functions (investigation, analysis, process improvement).	All subelements established, employees beginning to participate.	Rules written, medical and safety programs developing. Personal Protective Equipment adequate.	Training template completed for all personnel, training needs identified, process developed and begun, recordkeeping and recall system being developed.

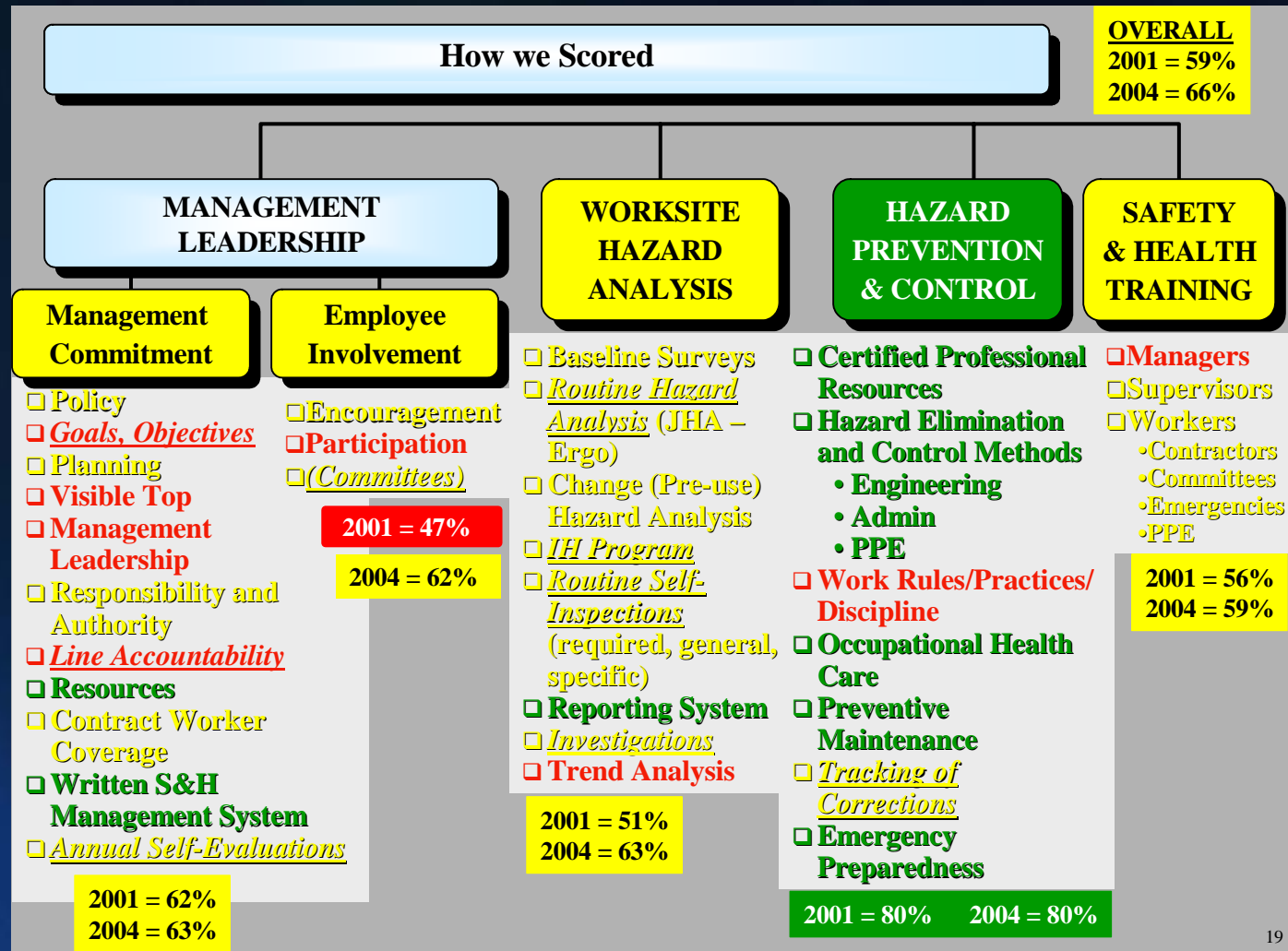
Score	≥ 36 points (Annual Score)	≥ 28 points (Annual Score)	≤ 16 points (Quarterly Score)
LTR	and ≤ 50% of the LTR for the applicable SIC rate Exception: Contractors with less than 100 employees located onsite MSFC shall have no lost time injuries during the past year.	and < the applicable SIC rate Exception: Contractors with less than 100 employees located onsite MSFC shall have no more than one lost time injury during the past year.	or > the applicable SIC rate Exception: Contractors with less than 100 employees located onsite MSFC. A Level III rating will be given when greater than two lost time injuries are reported during the past year.
Grade Levels	I	II	III
Recognition	Formal award publicly recognized. Appropriate Past Performance referrals provided.	Formal letter of commendation – will impact contract evaluation and past performance. (Score must either be the same score or higher from the last evaluation.)	Formal letter expressing concern. Corrective Action Plan requested. Data placed in Past Performance Database. Failure to improve could result in Contract Options not being exercised.



# Things We're Doing

## 3<sup>rd</sup> Party Assessment

- Conducted by Star Consultants, Inc. in late 04
- Overall score 66% (80% considered VPP "Star" equivalent)
- Our 2005 Plan concentrates on "critical" elements deficiencies



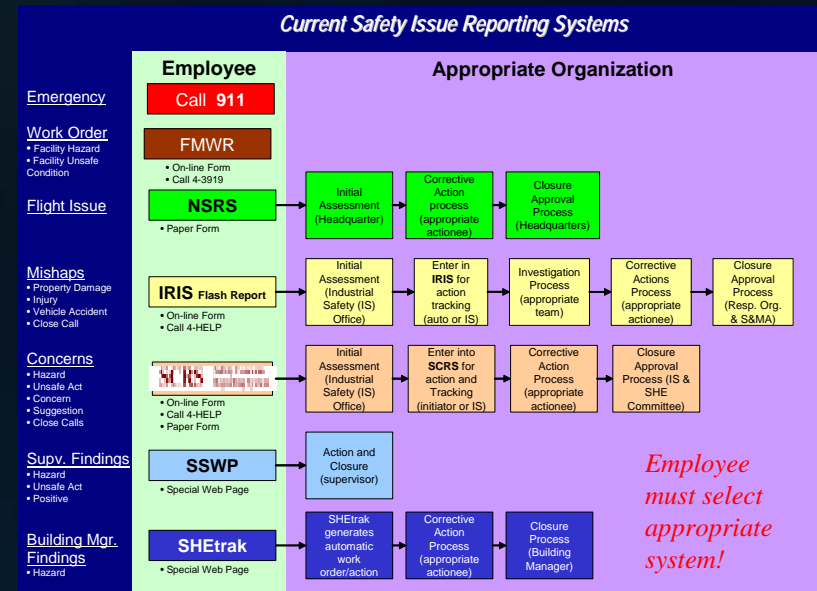


# Things We're Working On

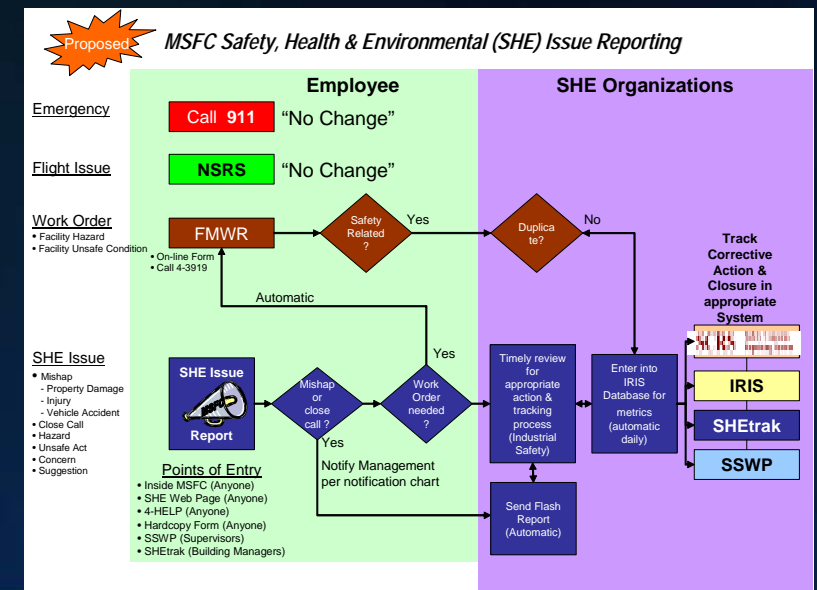
## SHE Issue Reporting

- Current process includes numerous reporting systems
- Customer can be confused
- In-work is a simpler process
- One reporting process, we will select appropriate tracking system
- New input form that expands as needed for type issue being reported

Current



In-work





# Things We're Working On

## Risk Assessments

- Major facility and center wide hazards being assessed.
- Potential cost, schedule impact, and personnel injury being evaluated.
- Research or Mitigation Plans, or Watch or Acceptance Rationale are documented.
- Summary Reports will be provided periodically to Management to assure awareness of Major Risk

George C. Marshall Space Flight Center  
Systems Management Office

Current Draft 1 Submitted on 11/11/2005 2:58:07 PM

DRIFT Approved  Group Access: CR05000 Planned Closure Date

Test Risk Name: 21 Risk Information Sheet

Label/Head: Title: Critical Drive Failure

Consequence: Description: Critical Drive Failure

Severity: Description: Critical Drive Failure

Technical: Description: Critical Drive Failure

Team: Description: Critical Drive Failure

Priority: Description: Critical Drive Failure

Created: Description: Critical Drive Failure

Approved: Research  Mitigate  Watch  Accept

Research Plan

Mitigation Plan

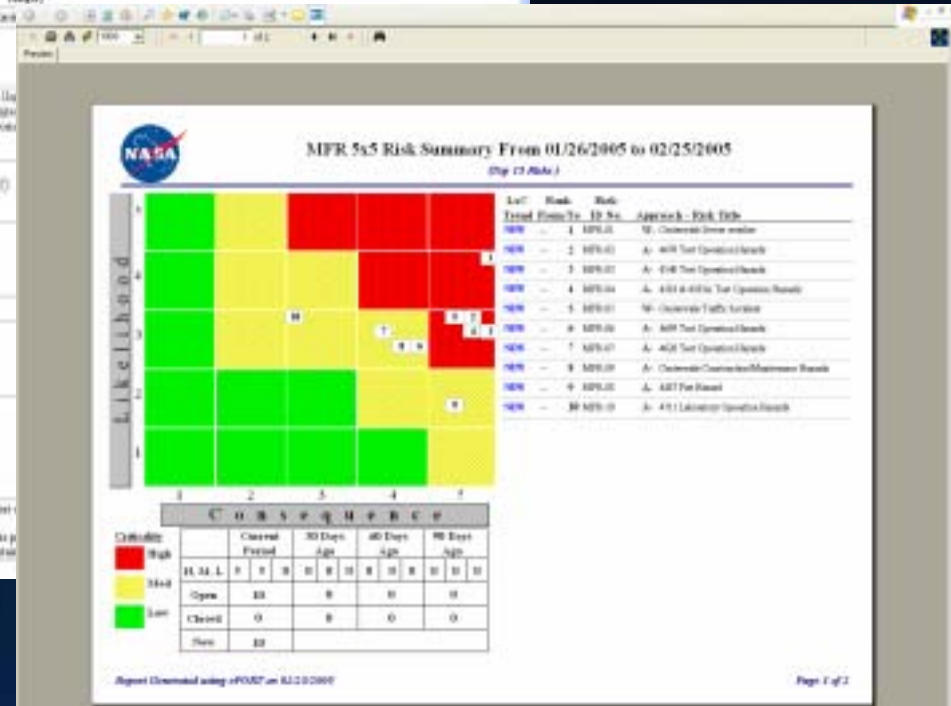
Risk Mitigation Cost: 1 Risk Mitigation Cost: 1

Overall Mitigation Plan (Click on step to modify)

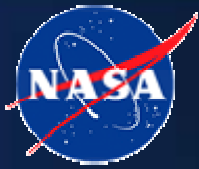
If no mitigation steps recorded

Work Plan/Tracking Requirements

Customer Emergency response system in place and maintained. Items required to be provided to the Center when a center-wide 'Watch' is issued. These plans are provided as such to ensure direct personnel to the appropriate personnel. Only as indicated weekly, and an Emergency Contact Center is maintained.

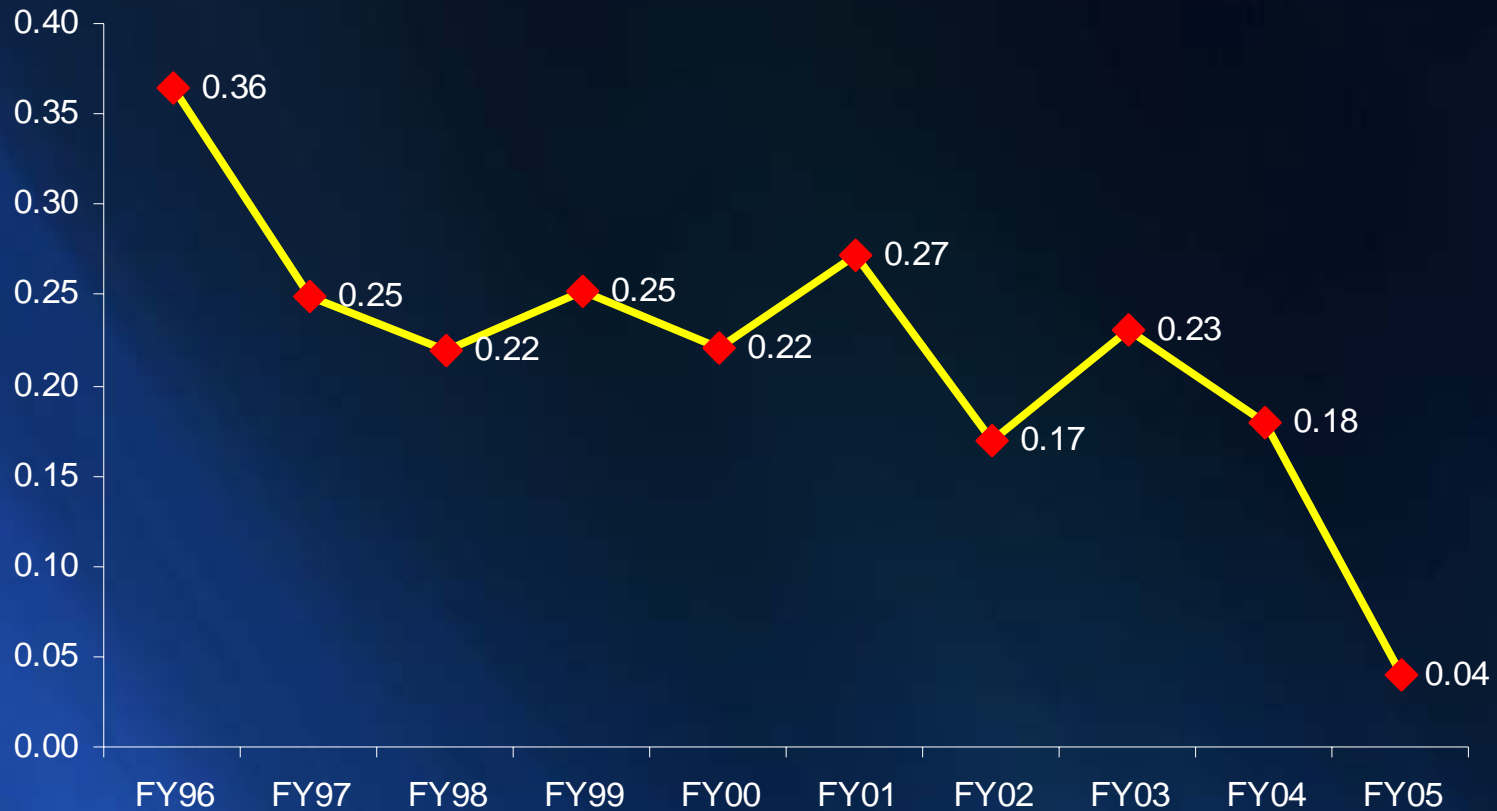






# How We're Doing

## Team (Civil Service and Contractors) Lost Time Incident Rate





# Proposed NASA Wide System

## RiskSafe 6 (www.dyadem.com)

- Improve quality and consistency of the hazard identification and control process for both Industrial and Flight Safety
- Improve maintenance and recordkeeping of “live” hazard analysis documents
- Provide a common place to build a vast knowledge base of risk experience for future use
- Improve efficiency in performing labor intensive hazard assessments

Potential Incident Hazard	Before Risk Reduction			Current Controls
	Cat	Ser	Risk	
1. Shoulder injury from continuously pulling cord with handle starts	Sev	L	M	1. Popover based machine
2. Hand makes contact with wheels while uncoupling the chute to the grass collection bag	Cat	L	H	1. Shield on Top of Motor housing of danger
3. Inhalation of Fumes from Motor	Mod	VL	M	1. Use high grade fuel to reduce harmful fumes 2. Popover based machine
4. Inhalation of Dust/Dirt from air propelled through Grass collection bag	Mod	VL	M	1. None
5. Flying Debris - Motor of Motor operation	Sev	VL	H	1. Bar Protection - Handbars
6. Foot Step under Cutting Deck	Cat	L	H	1. Shield on Top of Motor housing of danger
7. Object is propelled out from under Cutting Deck	Sev	VL	H	1. Remove debris from working area prior to starting

Hierarchy

- Study
  - Codes and Categories
  - Risk Systems
    - ANSI B11 Risk System
      - Severity of Harm
      - Occurrence of Harm
      - Probability Matrix
      - Risk
- Markers
- Administration
- Tasks
- Recommendations

Occurrence of Harm	Severity of Harm			
	Cat	Ser	Mod	Min
VL	H	H	M	L
L	H	M	M	L
U	M	M	L	N
R	M	L	L	N



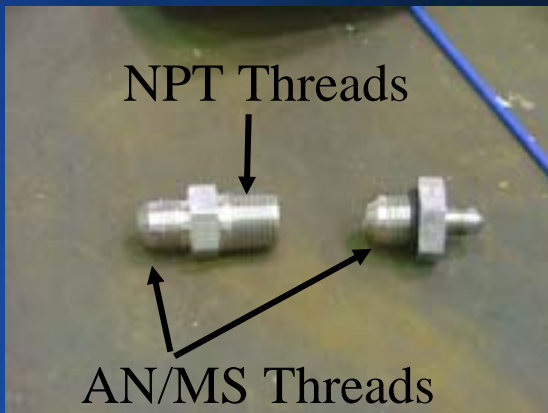
# Recent Pressure System Mishap

## What Happened

- Employee injured when high pressure fitting failed at 3000 PSI striking him on the head
- Cause - Technician engaged non-compatible 1/2" Army Navy (AN/MS) type fitting into 1/2" National Pipe Threads (NPT) port



Reenactment of Dome Valve Test Mishap



AN/MS Port



NPT Port



# Recent Pressure System Mishap (cont)

## Corrective Actions

- Designed GO/NO-GO Gages (Neeley Gages) for 100% verification of ports
- Steel-Stamp markings on each port
- Reconfigure Kellum restraints for less movement.



NPT Port

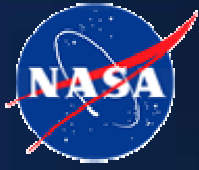


Typical Steel-Stamp Marking



AN/MS Port





# The End

Questions?