

## The GOOD Book:

#### a collection of Ergonomic Successes at Naval Air Depot Jacksonville, Florida

Barbara L. Wright NAVAIR National Ergonomics Program Manager

## In the beginning . . .



#### ... there was little light!

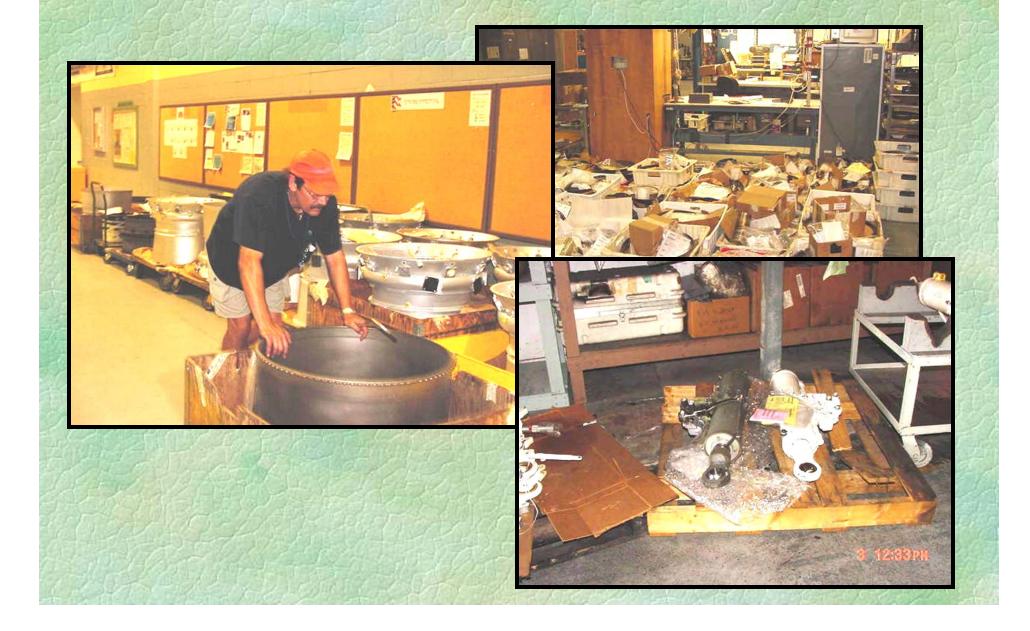
## We were doing things

#### Pretty much the same way we'd done them for the past 40 years -

- and proud of it!



#### **Staging and Storing...**



#### ... twisted postures



... the same way or little better.

## and awkward reaches . . .

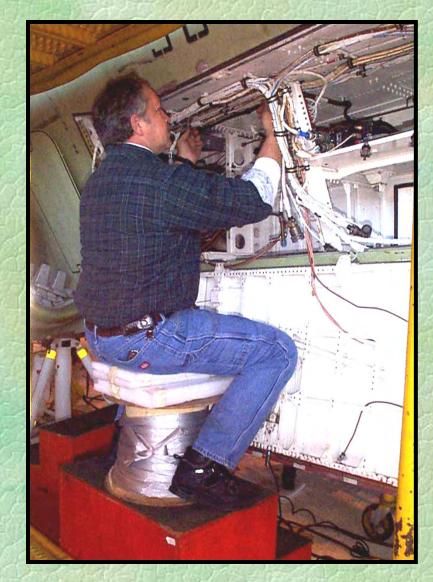


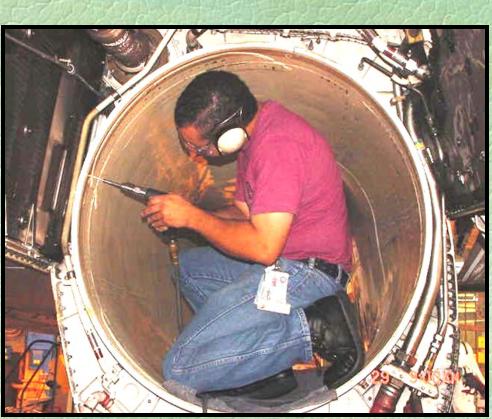
#### Work was <u>WORK</u> (by golly!) . . .





... and "comfort" was a four-letter word





"PRODUCTION" was the name of the game!

#### NO PAIN – NO GAIN! "Work harder, not smarter"





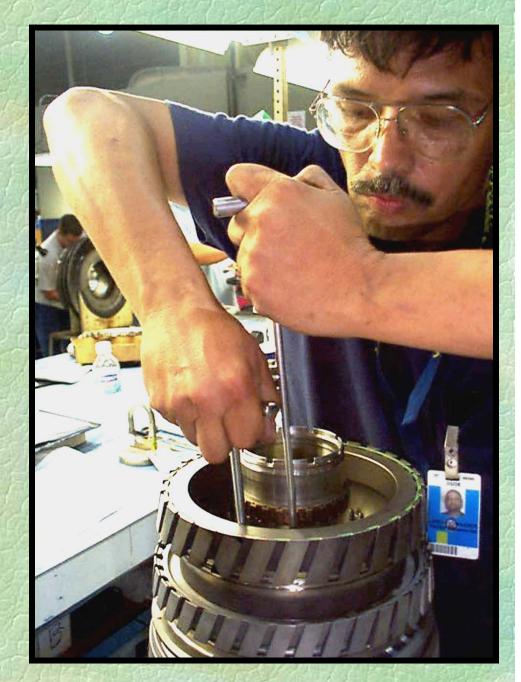


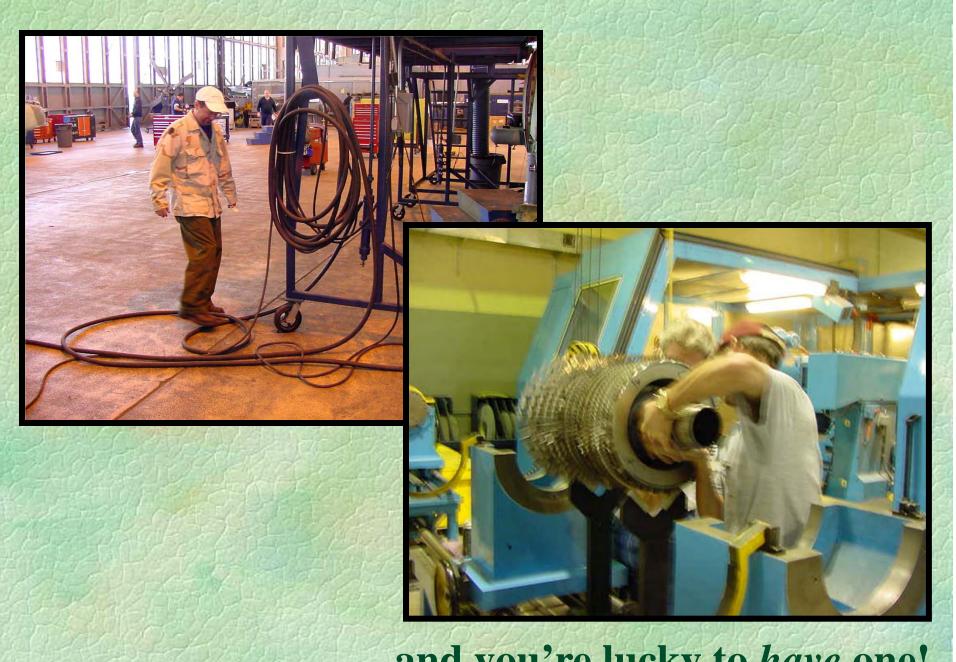
**Reach out!** 

## Hang in there!

#### ... and don't expect any credit –

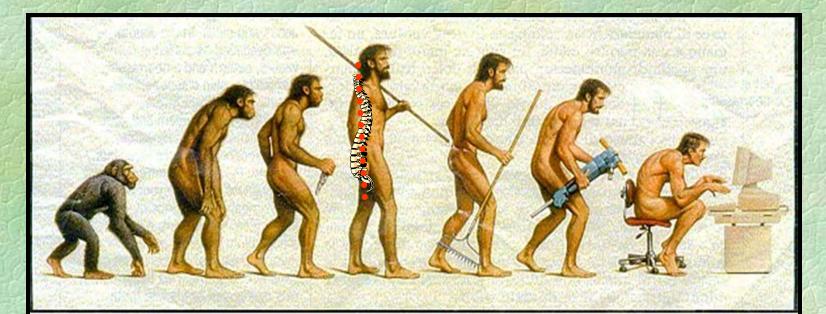
It's your <u>JOB</u> (gosh darn it) . . .





... and you're lucky to have one!

## New Technology and the work pace increased . . .

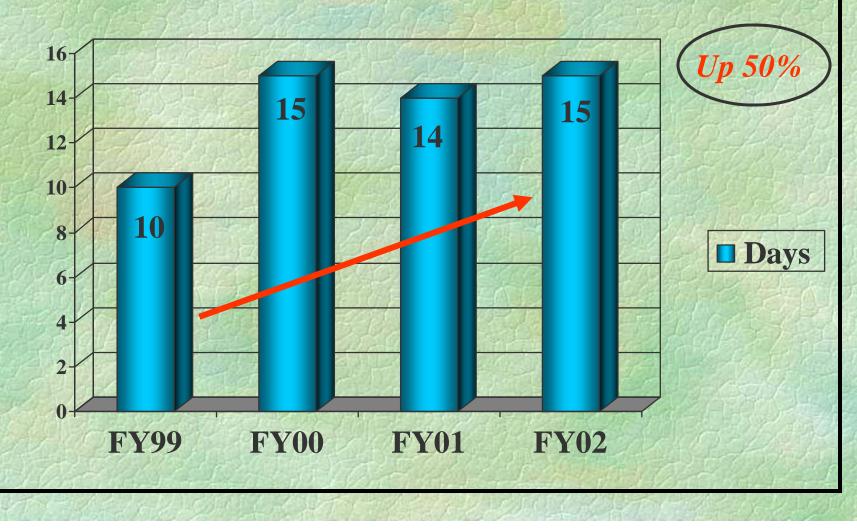


Somewhere, something went terribly wrong

... even faster than the age of our workers!

## Work-related injuries were increasing

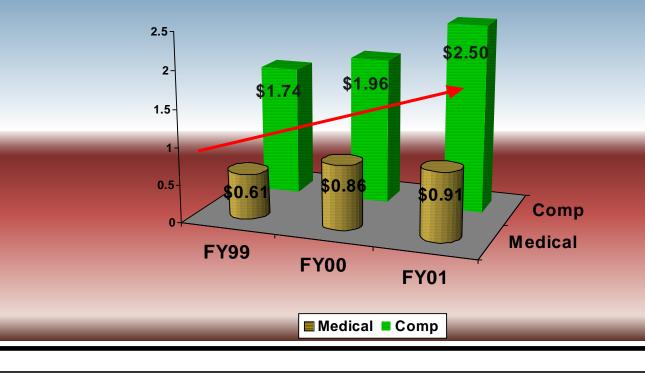
#### Workdays Lost/Per 100 Workers



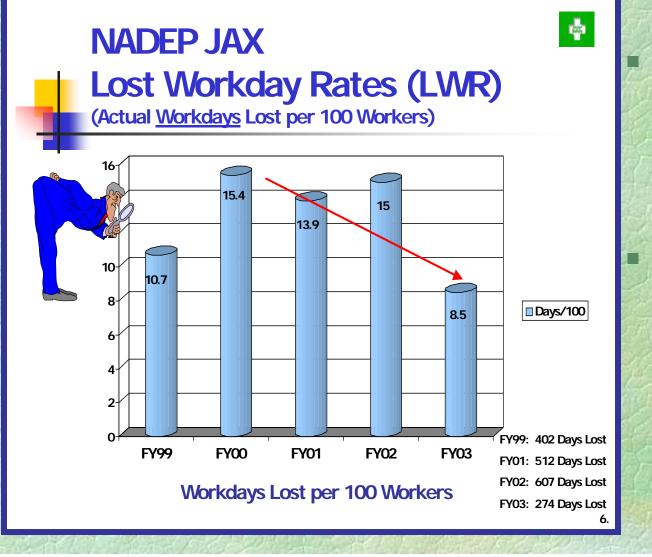
**Compensation, medical and administrative costs increased** 

#### NADEP JAX FECA (Worker Comp) Chargeback:

#### **Medical/Comp Costs in \$Millions**



### ... and so came STATISTICS and managers saw that numbers were <u>good</u>!



They highlighted the "black holes"

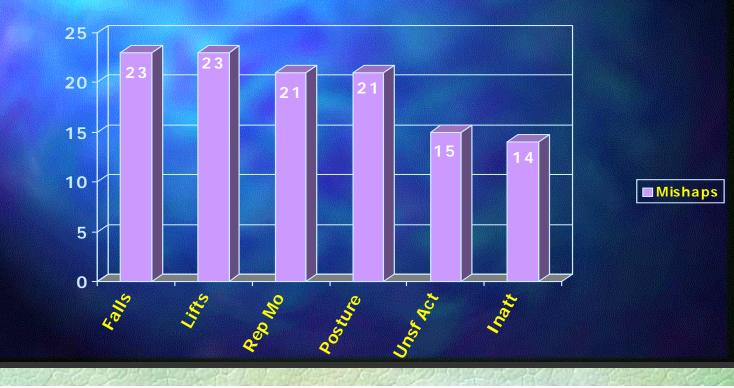
They pointed out the smooth spots that needed no attention, and

#### They helped focus limited resources

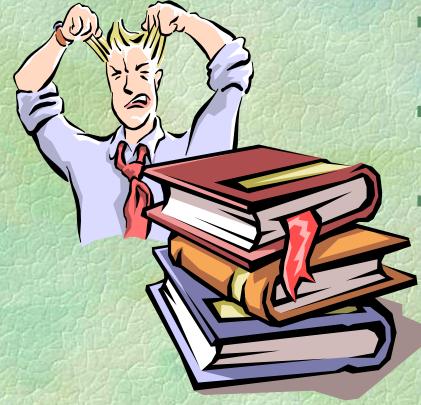


Checking back. . . FY01 Mishaps Focus on:

#### Most frequent mishap types



## and rulers made <u>laws</u> to fit work sites to workers.



OSHA Ergonomics Guidance to Industries
OPNAV Instruction on Ergonomics (Navy Policy)
NADEP Jacksonville Ergonomics Instruction ("Something for us to hang our hats on!")

- NADEP Supervisors

## At NADEP Jacksonville /e don't let <u>KIDS</u> play with the aircraft!



r workforce matured as it reased in <u>age</u> at the same time work *pace* increased. Few of us re content now just to be told at to do (and be efficient about it) e wanted to know WHY?



wanted to be *a part of* the risions – we wanted to make our <u>n smart decisions! We had our</u> n valuable ideas . . .

I we looked to managers for

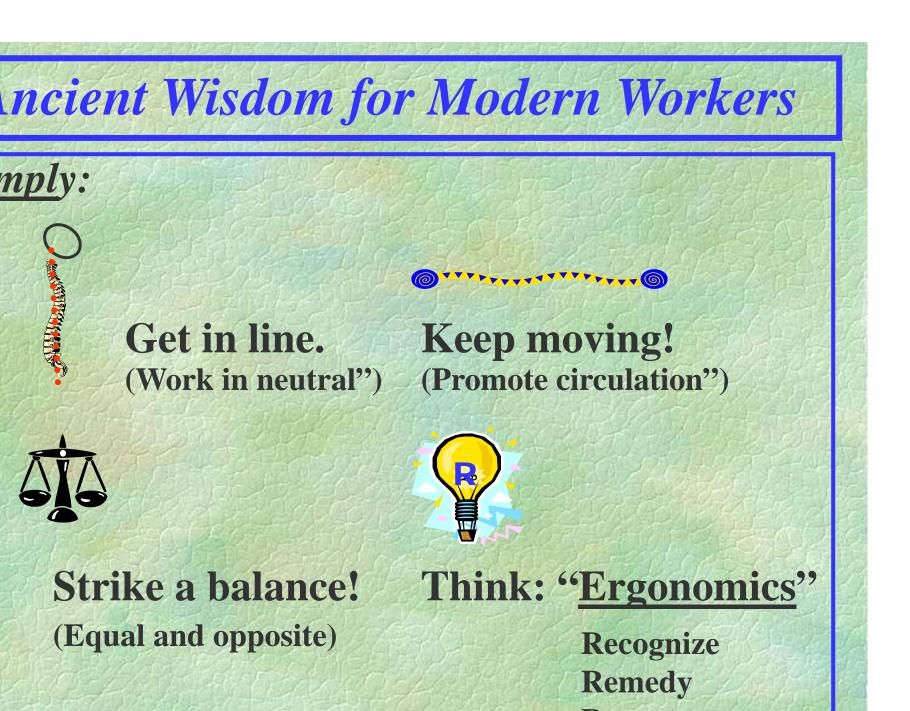


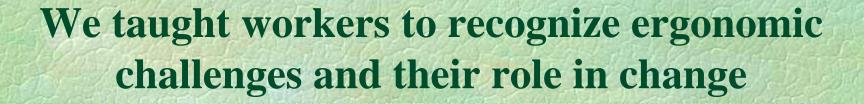
# And so .... the ERGOERA

came to be!

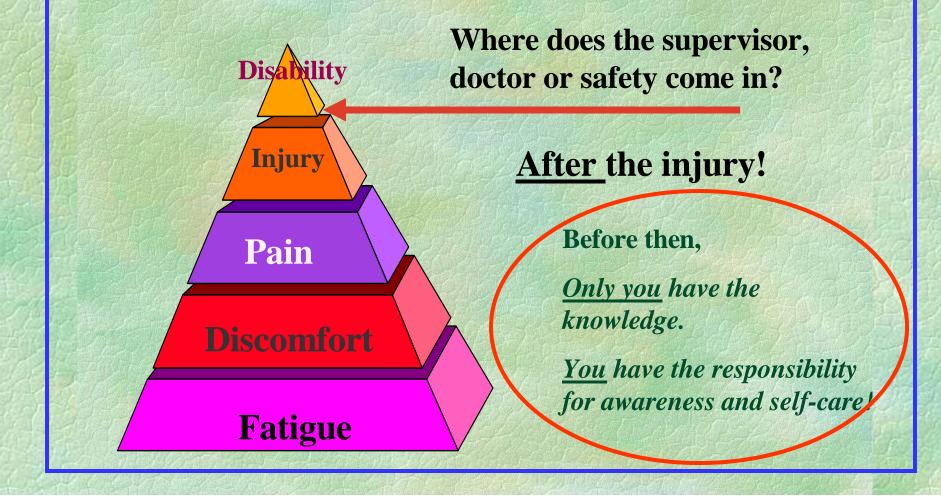


le taught our workers the "secrets of ancient wisdom"

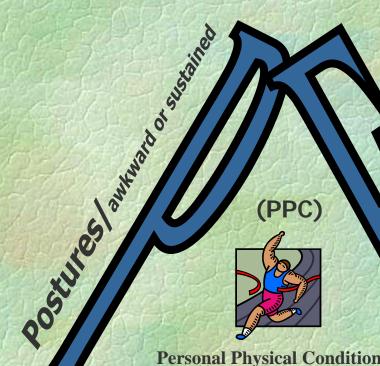




#### Personal Responsibility & Simple Self-Care



### We taught them how to protect themselves - Simply!



**Personal Physical Condition** 

#### **Strain Triangle**

**Every MSD begins** with at least one of these.

Just like the Fire **Triangle:** Control any ONE element risk is greatly reduced!

Repetitions

(NADEP JAX Secret Symbol for Ergonomics)

rces

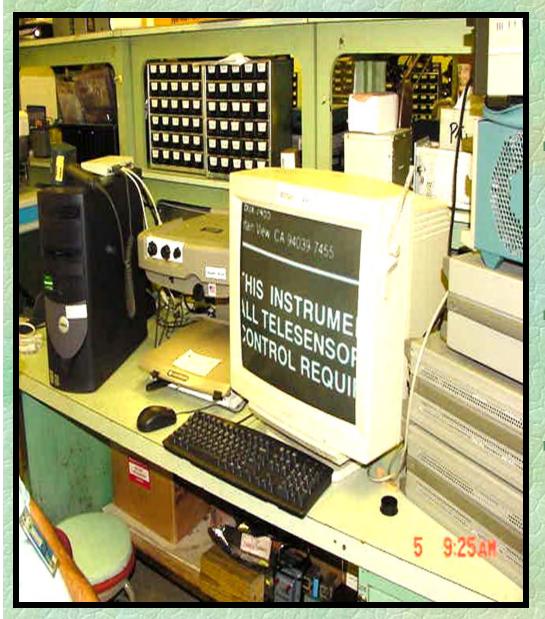
#### We listened to them to protect others . . .



#### We gave them a system to effect change <u>before</u> injuries happened

#### **NADEP Jacksonville Ergonomics Process**

#### The Ergo Era emerged . . . .



- We gave them mechanical and technological assistance
- We provided better ways to reach the job ...
- And smarter ways to DO the job

#### We focused first on Back Injuries (Tracked and measured improvement)

In FY01 back injuries were down 18% from FY00, and the days lost to back injuries were down 29%. Was it a fluke? Or might we see Ergonomics pay off every year?

182721222	<u>FY00</u>	<u>FY01</u>	<u>FY03</u>	部改正公
Back Inj	28	23	36	Up 29%*
Back Inj w/zero loss	18	14	28	Up 56%
Lost Day Cases	10	9	8	Down 20%
Days lost to backs	132	99	42	Down 68%

But, did we know any more about WHY they were happening?

#### Using our Secret Symbol, we narrowed down the <u>Causes</u> of Lost Workday back injuries:

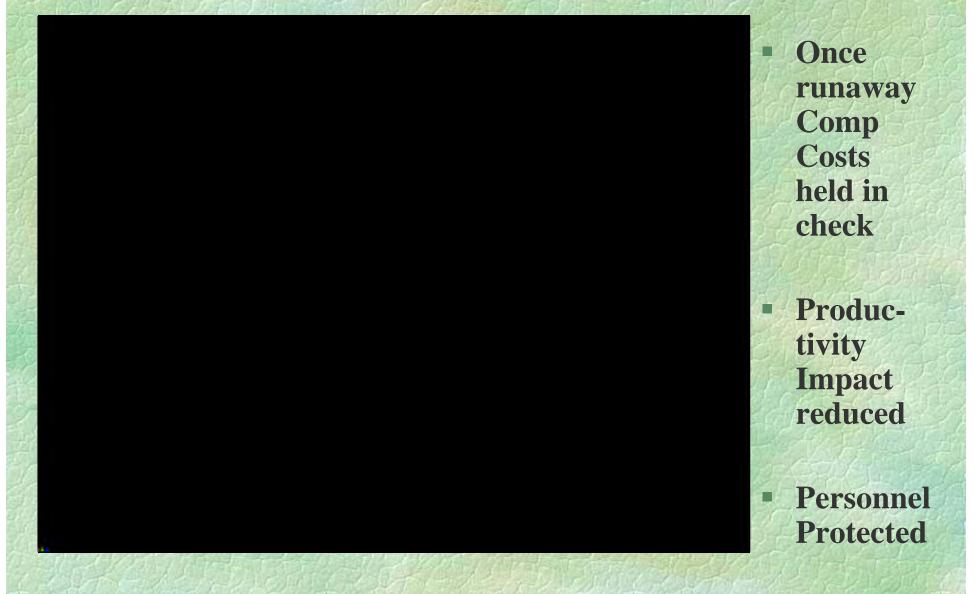
	<u>FY01</u>	<b>FY02</b>	<b>FY03</b>	Outcome:
Force	1 ER	a entre	h the	
<b>Overexertion</b>	10	7	3	Down to less than 1/3
Days lost lifting	60	29	13	Down to less than 1/4
<b>Postures</b>	9	7	3	Down to 1/3
Days lost	57	2	10	Down to 1/6
<b>Falls</b>	5	4	1	Down to 1/5
Days lost fm falls	5 9	52	13	Up 44%
Personal (PPC)	0	0	1	5 days lost in FY03

Twenty-eight (78%) of the 36 back injuries reported in FY03 <u>did not require lost workdays</u>. We encourage early reporting so that intervention takes place *before* injury occurs! IT WORKS!

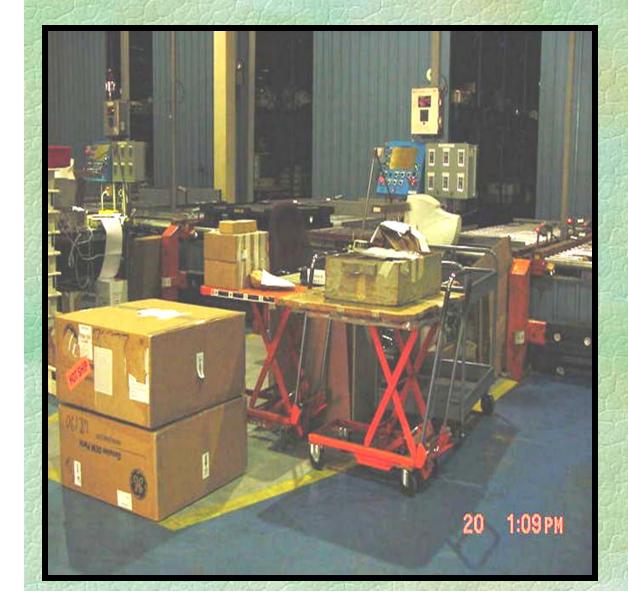
#### And so, the Ergo Era reduced injuries

**Back injuries** were no longer most frequent nor most costly injuries **Days Lost to**  $\Box \mathscr{U}$ **Strains** reduced **Discomfort** m was reported early, so intervention was possible before injury

#### <u>Managers</u> noticed the savings and they saw that savings were "good."

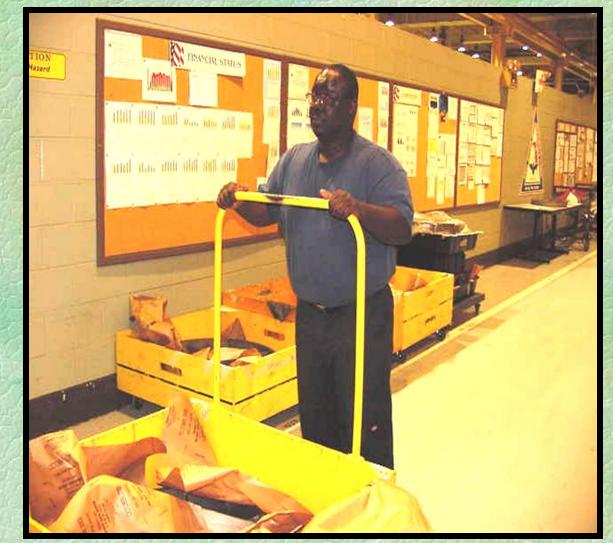


#### and <u>Managers</u> noticed the productivity (They KNEW productivity was a good thing!)



**Foldaway Carts EIDOS Positioner Sit Stand Rester Super Chair Robotics Shop Seating** Adj Lift Carts

## The simplest things were "simply wonderful" if they reduced aches and pain



- Surface MatsAdjust Stools
- Impact gloves
- Wheels
- Cradles
- Blade Covers
  - Handles

## It wasn't just Industrial workers who penefited ...



## What do you work safely for?



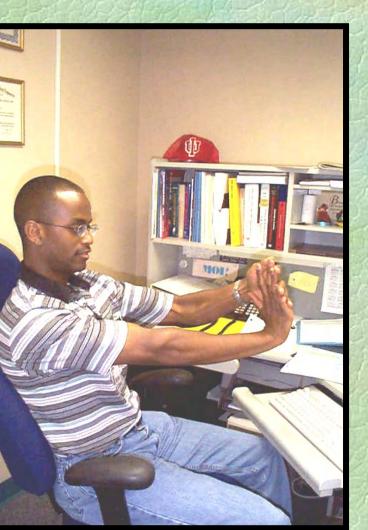
#### anagers wisely invested in Ergonomics



#### **TEAM**

- Meetings
- Projects
- Training
- TIMEJob Number
- FUND
  - Materials
  - Manpower

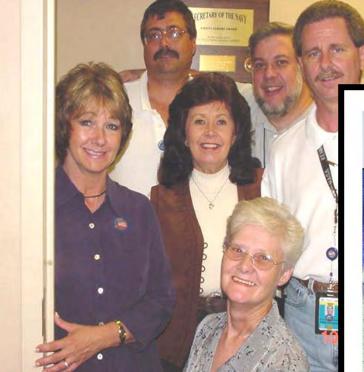
## nd so Ergonomics flourished - and rew, and became refined



Web

- Information
- Communication
- Matched Funds
- Recycling
  - Adjustable
  - Durable
  - Relocatable
- Training\*
  - Process Engineers
  - Supervisors
  - LEAN

## ... and we exported lessons-learned hroughout DoD and Private Industry –

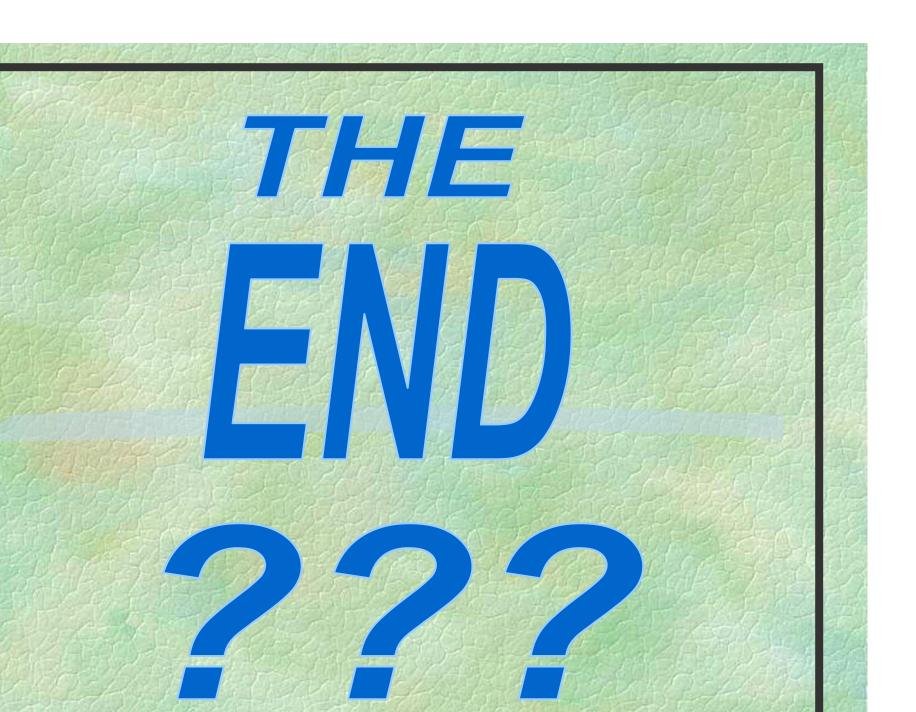


SECNAV Awards in 4 years

Admiral Vern Clark Award



and others cow that Fran was "COOD!"



## WE CERTAINLY HOPE NOT!

