

A NEED FOR CHANGE

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Crane Safety 2001
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MMS Mission

Safe and Clean Operations



Minerals Management Service



Petrobras P-36



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SAFETY INSPECTIONS



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GOM SAFETY STATISTICS

	1995	1996	1997	1998	1999	2000	2001*
Fatalities	8	10	11	14	5	5	1
Injuries	31	62	83	66	47	63	14
Blowouts	1	4	5	7	5	9	1
Collisions	6	5	10	5	10	7	6
Explosion	0	8	10	4	7	1	3
Fires	42	87	125	90	74	96	19

Source: TIMS database as of March 29, 2001



CRANES - EVENTS

- 1995 - Five crane incidents
 - One fatality and two serious injuries
- 1996 - Ten crane incidents
 - No fatalities, multiple serious and minor injuries
- 1997 - Ten crane incidents
 - Two fatalities, multiple serious and minor injuries
- 1998 - Twelve crane incidents
 - Four fatalities, multiple serious injuries (includes Petronius incident)



'95-'98 EVENTS

INJURIES/FATALITIES BY JOB TYPE

Job type	Number of incidents	Number of injuries and fatalities
Crane operators	2	2 minor injuries
Riggers	11	6 fatalities 10 injuries ranging from minor to serious
Personnel basket	4	4 minor injuries
Personnel not involved with crane operations	2	1 fatality 3 serious injuries 1 minor injury



MMS ACTION

- Formed crane workgroup - May 1998
 - Purpose was to identify trends and common factors.
- Workgroup recommendations
 - API to revise RP 2D to include rigger training requirements
 - Conduct a workshop with industry to improve crane safety
 - Improve accident investigations and reports



MMS ACTION

- Workgroup recommendations (pending)
 - Require third party inspection/certification
 - Review the need for regulating booms and other material handling equipment



Workshop on Crane Safety

- Held March 2000 in Lafayette, LA
- Focus - The operation of platform cranes
- Objective - To improve the safety of crane operations on offshore drilling and production platforms



Workshop on Crane Safety

- Very informative session on best practices by operators and crane manufacturers
- Served to high light the numerous problem areas associated with crane operations



CRANES - EVENTS

- 1999 - Six crane incidents
 - One serious injury
- 2000 - Nine crane incidents
 - One serious injury
- 2001 - One crane incident (to date)
 - No injuries



'99-'01 EVENTS

INJURIES/FATALITIES BY JOB TYPE

Job type	Number of incidents	Number of injuries and fatalities
Crane operators	1	serious injury
Riggers	0	
Personnel basket	0	
Personnel not involved with crane operations	1	serious injury



WD 75 January 26, 2000



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WD 75 January 26, 2000



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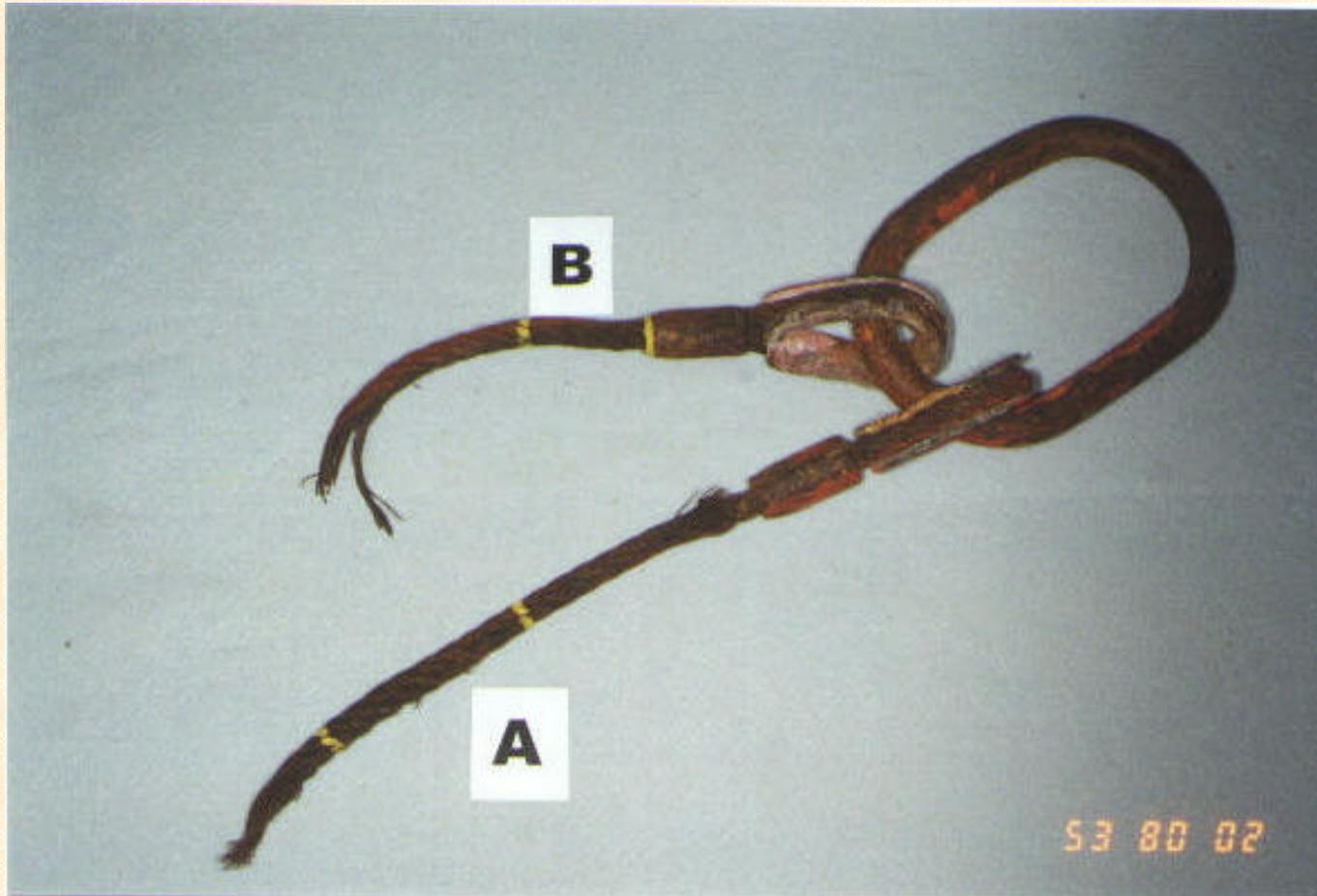
ST 185 March 21, 2000



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ST 63 April 27, 2000



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ST 63 April 27, 2000



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ST 204 October 02, 2000



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ST 204 October 02, 2000



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WC 61 February 08, 2001



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WC 61 February 08, 2001



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CRANES - RECENT EVENTS



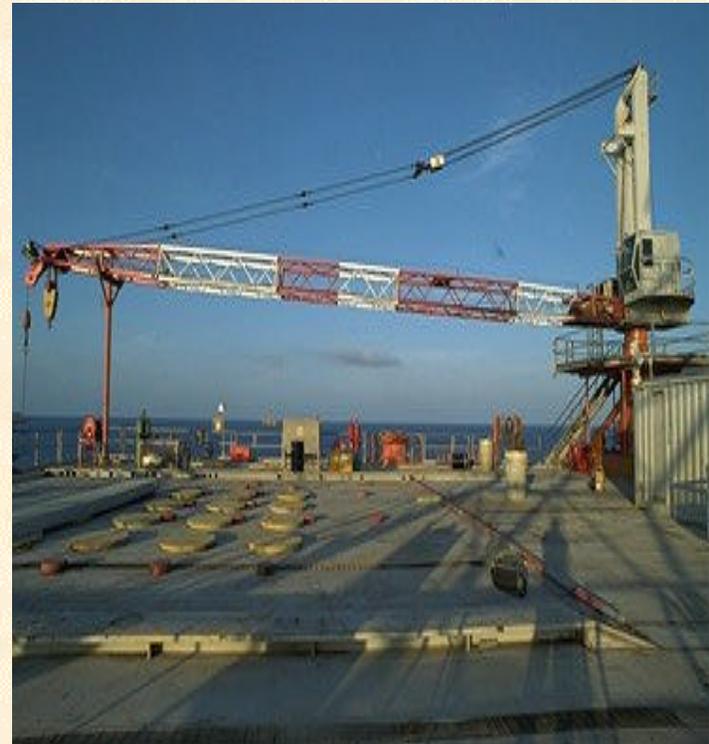
Photo Courtesy of Well Control School

- **MMS Crane Team (1998)**
- **Lack of Rigger Training - Major Cause of Accidents**
- **API RP2D, 4th Edition Incorporated into Regulations (3/24/00)**
- **MMS NTL (9/15/00)**
- **MMS to Check for Compliance (4/1/01)**



CRANES - FUTURE INITIATIVES

- **MMS to Continue Efforts to Address Crane Safety**
- **API Spec 2C - NPR**
- **NPR Issues**
 - anti two block safety devices (1 year)
 - crane loading
 - crane inspection
- **Harmonization with USCG**



Where Are Changes Needed?

- MMS Workgroup recommendations (pending)
 - Require third party inspection/certification
 - Review the need for regulating booms and other material handling equipment
- Standard for de-rating cranes
- Continued need for focusing on the basics
- Increased dialogue between MMS, USCG, and industry





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