

MMS CRANE REGULATIONS & ACCIDENTS

Pedestal Crane Safety Workshop & Exhibition

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Minerals Management Service

Gulf of Mexico – OCS Region



Regulatory Authority

- The Minerals Management Service (MMS) is the regulatory body responsible for crane safety and operations on fixed platforms on the Outer Continental Shelf (OCS) of the United States of America.
- The United States Coast Guard (USCG) is the regulatory body responsible for crane safety on Mobile Offshore Drilling Units (MODU) and floating production facilities.



Basis for Regulations

➤ MMS Regulations

- API Recommended Practice (RP) 2D, Fourth Edition
- API Specification (SPEC) 2C, Fifth Edition

➤ USCG Regulations

- API Recommended Practice (RP) 2D, First Edition
- API Specification (SPEC) 2C, Second Edition



How Does the MMS want to Regulate Cranes?

- Through API Specification 2C revisions
- Through API Recommended Practice 2D revisions
- Write a new regulation only if MMS is unable to resolve an issue through the API



HOW ARE REGULATIONS MADE?

- When the need of a new regulation is recognized by the MMS, a “Notice of Proposed Rule Making” is published in the Federal Register outlining the new proposed rule.
- There is a 90-day comment period in which industry can comment on this proposed rule.



HOW ARE REGULATIONS MADE?

- An industry / government workshop may be held 45 days into the comment period to allow dialog between industry and government.
- A “Final Rule” is then published in the Federal Register. Within the “Final Rule,” comments from industry are addressed. Industry comments are either accepted or rejected with a statement why. The “Final Rules” will have an effective date and the industry may be given a grace period to implement the new rule.



HOW ARE REGULATIONS MADE?

- A new regulation takes from one to five years to implement.



API & REGULATION

- The American Petroleum Institute revises their standards at least once every 5 years.
- Each revision of the API document will have to be reviewed to determine if it should be incorporated into a regulation.



API & REGULATION

- MMS incorporation of a new API Standard revision will have to go through the “Notice of Proposed Rule Making,” “Comment Period” and “Final Rule” process.
- To incorporate a new revision into the regulations requires at least 18 months.



WHAT TRIGGERS A CHANGE TO THE STANDARDS OR REGULATION?

- Accidents
- Changing technology
- Need for consistency
- Need for clarity



How Many Cranes?

- 2,440 pedestal-mounted cranes on 4,093 fixed and floating production facilities operating in the Gulf of Mexico.
- Daily average of 158 platform rigs and MODUs operating in the Gulf of Mexico 1998 through 2003.
- Temporary Cranes ?????



Why is the MMS Concerned?

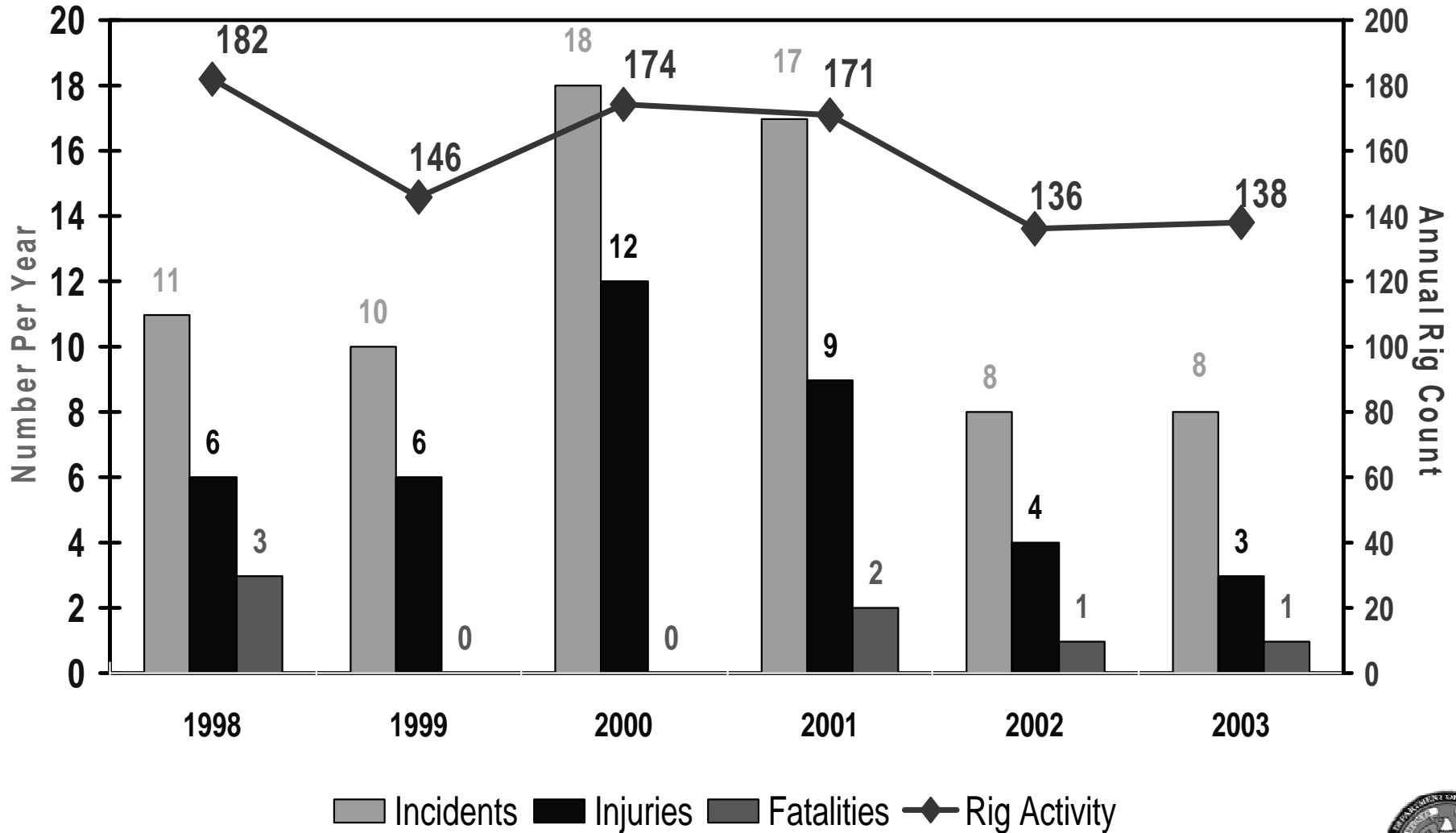
Since 1998, cranes on fixed platforms, MODU's and floating facilities have accounted for

16% of all injuries
17% of all fatalities

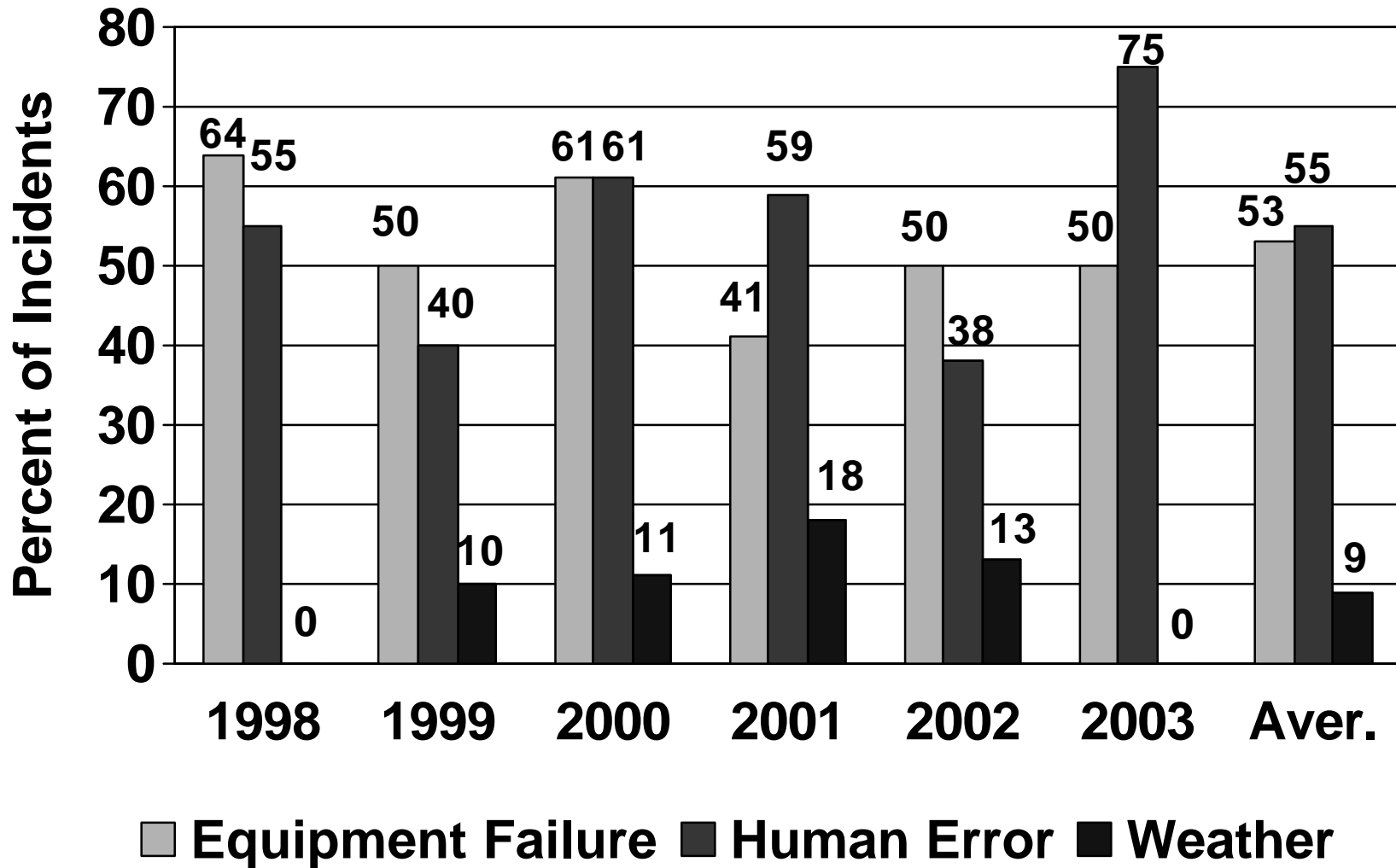
in the Gulf of Mexico.



All Crane Incidents and Rig Activity in the Gulf of Mexico 1998 - 2003



Contributing Factors to Crane Accidents in the GOM



MMS Crane Work Group

Four crane fatalities in OCS waters in 1998 moved MMS to form a Crane Work Group to review accident trends and make recommended changes in crane policies.



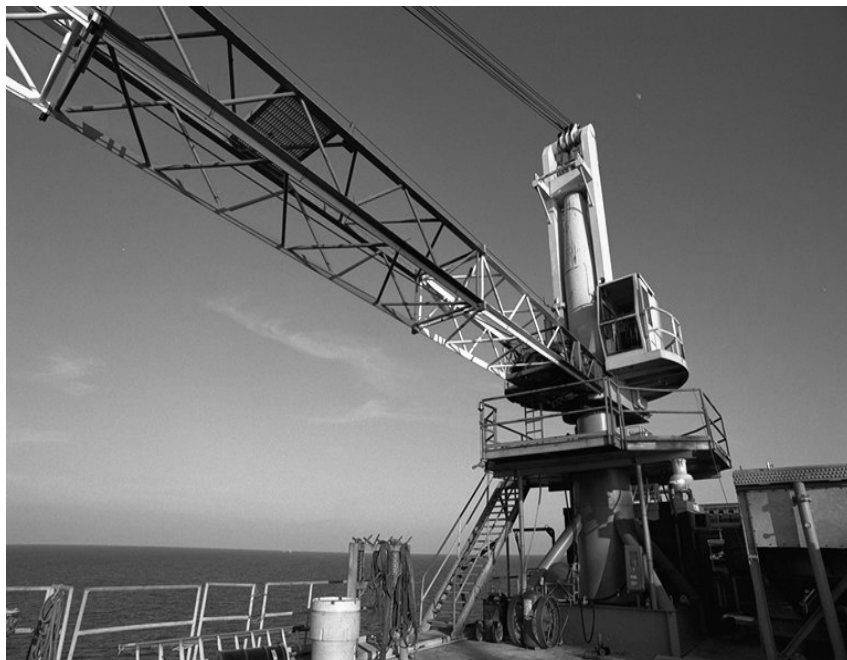
Activities Since 1998

- **1998** The MMS Crane Group identified that a large percentage of crane-related injuries on fixed platforms involved personnel associated with rigging.
- **1999** API revised the API Recommended Practice (RP) 2D (4th Edition, August 1999) to include rigger training requirements.
- **2000** MMS incorporated the new edition of API RP 2D into the regulation.



Activities Since 1998

- MMS, API and industry sponsored Crane Workshops in 2000, 2001, and 2003 to raise awareness about crane accidents.



Activities Since 1998

- 2003 - MMS incorporated the 5th Edition of API Specification 2C.
- 2003 - MMS require the installation of anti-two block devices on all cranes by March 2005.
- 2003 - API revised API RP 2D as the 5th Edition, June 2003, to include:
 - Crane inspector training
 - Positive locking latch on hooks used for personnel transfer
 - Deck/structure evaluation for temporary cranes.



Activities Since 1998

- 2004 - API revised API SPEC 2C as the 6th Edition, March 2004. The dynamic load calculation section was expanded.
- 2004 - MMS developed a crane and material handling incident database.
- 2004 - MMS developed a standardized list of data for crane accident investigations involving serious injuries and fatalities.



Activities Since 1998

- August 2004 the MMS drafted a final rule to incorporate API RP 2D 5th edition and API SPEC 2C 6th edition.



MMS Future Actions

- Cosponsoring an API Crane Workshop June 2005 in Houston, Texas.
- API RP 2D is currently being revised as the 6th edition.



MMS Future Actions

- New regulation or revision of API RP 2D to require that all cranes regardless of the date of manufacture have a static as well as a dynamic load chart calculated in accordance with API Specification 2C.
- Reviewing a proposed regulation that would require cranes to be load tested once every 5 years.



Comments / Questions

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**OFFSHORE CRANE SAFTY WEBSITE IS
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