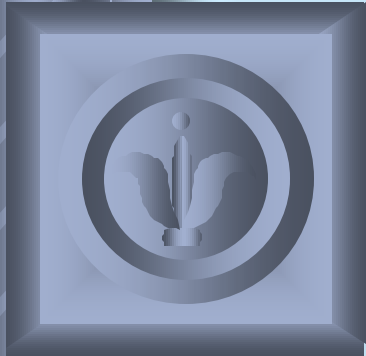


ISM-Fleet Status

Capt. Morgan J. Turrell
University of Washington



AGOR Fleet

**All vessels ready for July 1st,
2002 Deadline!**

Shore Management Compliance

- **Documents of Compliance Issued**

- Nimitz Marine Facility

- WHOI

- Lamont Doherty

- UW

- **Will be audited every year**

Ship Management Compliance

- **Vessels issued Ship Management Certificates**
 - Revelle, Melville, Thompson, Ewing, and Atlantis.
 - Knorr (audit this month)
- **Will be audited every two years**
- **Every USCG, ABS, Port Inspection are potential audits.**
- **Some vessels issued Voluntary Compliance Certificate**

What's Next?

- **Refine and Improve**
- **Circulation of Personnel**
 - **Spread culture of Safety**
 - **Reduced delays in training**
- **Adding new vessels to regime**

Comments from the Fleet

- **Avoid ISO-9000 certification**
- **Initial Inertia**
- **Some Confusion and Concentration on details**
- **Now we have to maintain these systems**
- **There are real expectations on the Science Community—not business as usual**
- **Making Science happen safely...without bureaucratic delay is our goal.**

Nonconformities

- **Misinterpretation of ISM Code**
- **Documentation**
- **Growing pains with personnel**
- **Auditor differences**
- **Major/Minor Problems**
 - **Gear Failures**
 - **Documentation numbering**

New Expectations for Science

- **ISM not a creation of RVOC—mandated by law**
- **The Safety Management Systems will vary from operation to operation.**
- **Basic Knowledge of Safety & Environmental Policies and Procedures.**
- **Interpreted differently by auditors**
- **Have briefings before initial deployments**
- **Have necessary paperwork ready particularly crew lists, manifests, hazmat, etc.**

Future Benefits and Goals

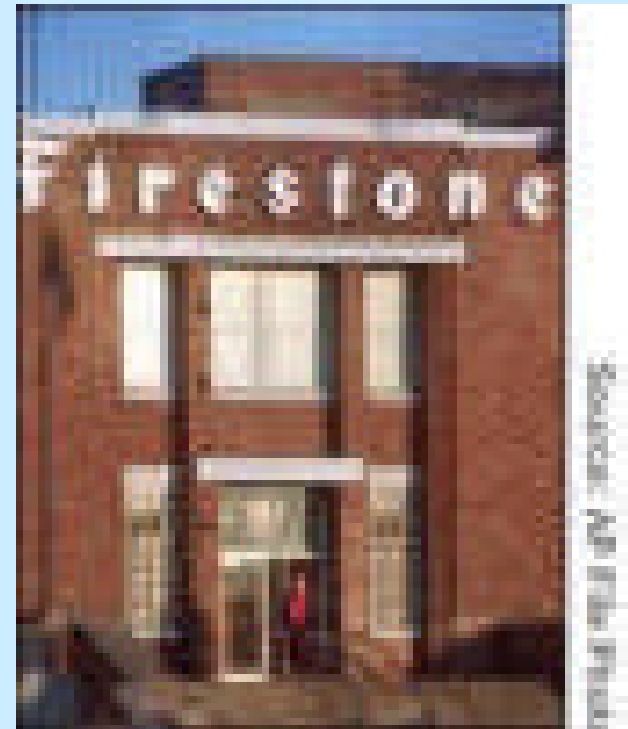
- **Some fleet uniformity**
- **Getting away from finger pointing and encouraging safety**
- **Faster improvements to fleet**
- **Web based info—easier access**
- **Better Communications**

ISM & RVOC/RVTEC agenda

- **Constant Improvement and Discussion in Community**
- **Input from Scientists is essential**
- **Fear is subsiding**

Is Quality Job 1?

- **Ford/Firestone**
- **Firestone Decatur Plant issued ISO 9000 compliance by Lloyds in 1997**
- **88 Deaths**
- **Audit industry is under fire**
- **Questions and No answers**



Quality Digest Article

Scott Paton-2000

The USA Today article states that a running joke among quality "experts" is that a plant making life preservers of cement could get certified provided procedures were written and followed exactly. If somebody wanted to buy cement life preservers, I'm sure somebody would make them. And I'm equally certain that if the supplier's quality management system met the customer's requirements and ISO 9000's requirements, it could get registered. Just don't blame the registrar when people start drowning.

Beware of Future Changes

- **ISO 9000 standards changed**
- **Auditing Industry is under fire**
 - Firestone
 - Arthur Andersen/Enron
- **Another Marine Casualty could bring changes**
- **Tougher Auditing/Penalties**

Summary

The fleet and the operators are in compliance before the July 1, 2002 deadline.

Continual Improvement, Support and Training is needed.

Participation and Cooperation with the Community is necessary to keep the ships moving.

Our thanks to UNOLS, NSF and ONR for their financial, moral and technical support!