

Culture of Safety



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Submarine Safety in the U. S. Navy

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Fifty Years Ago Today – In This Hour ...



*USS THRESHER was lost at sea with all 129 aboard
112 Officers and Enlisted; 17 civilians*

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- The purpose of the SUBSAFE Program is to provide “maximum reasonable assurance” of:
 - Hull integrity to preclude flooding
 - Operability and integrity of critical systems and components to control and recover from a flooding casualty



Elements of a Culture of Safety

- **Responsibility**
 - A duty, obligation, or burden

- **Accountability**
 - The state of being answerable for one's actions

- **Integrity**
 - Rigid adherence to a code of behavior





Elements of a Culture of Safety

- **Work Discipline**
 - Knowledge Of and Compliance With Requirements
- **Material Control**
 - Correct Material Installed Correctly
- **Documentation**
 - Design Products (Specs, Drawings, Maintenance Standards, etc.)
 - Objective Quality Evidence (OQE)
- **Compliance Verification**
 - Inspections, Surveillance, Technical Reviews, Audits
- **Separation of Powers**
- **Continual Training**



Compliance Verification



USS TUCSON



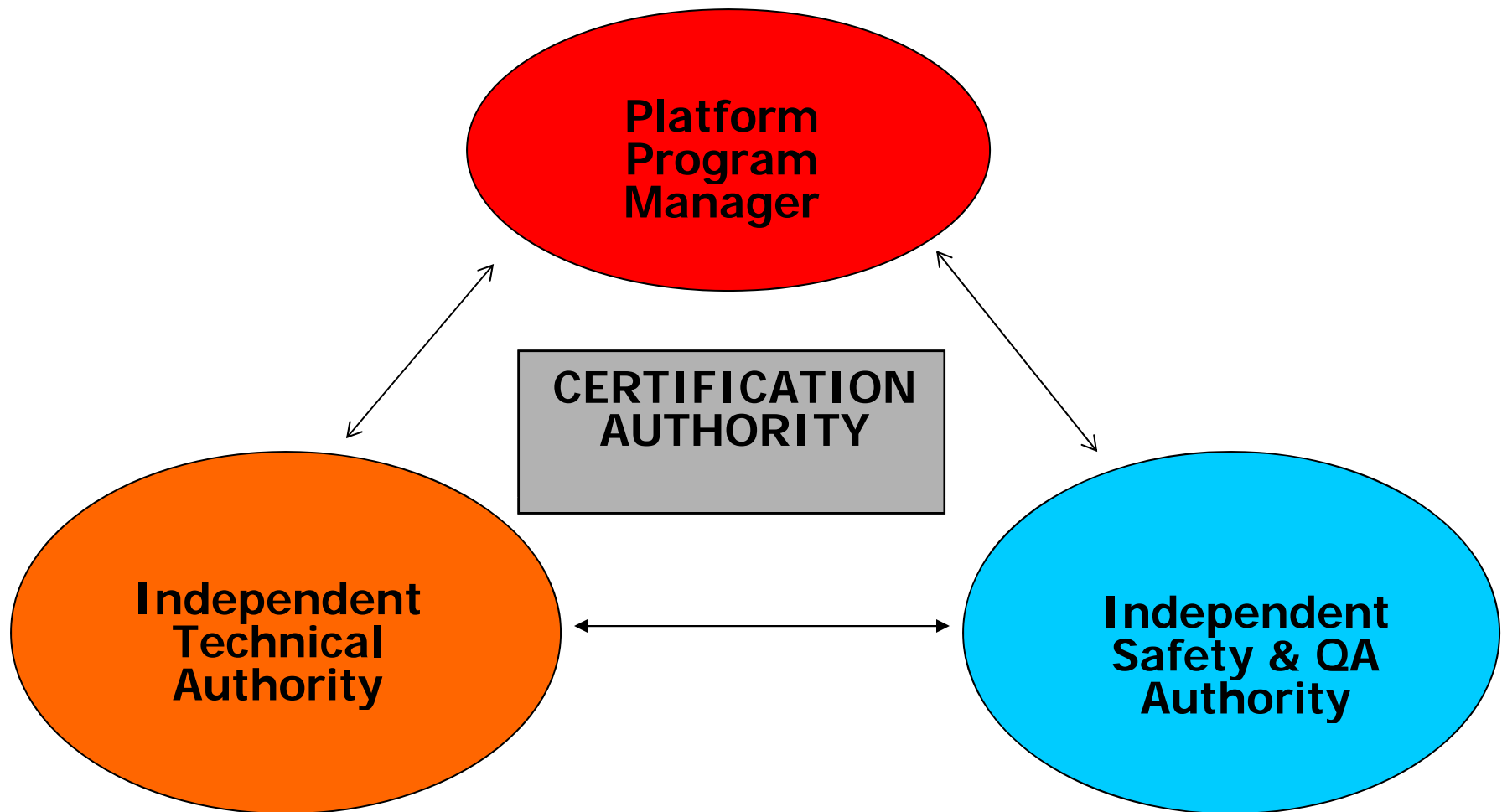
Portsmouth Naval Shipyard

- **SUBSAFE Certification Audits:**
 - Ship specific
 - A critical element for certification for sea trials and unrestricted operations

- **SUBSAFE Functional Audits:**
 - Facility specific review
 - Policies
 - Procedures
 - Practices
 - Verifies organizational compliance with SUBSAFE Program requirements



Separation of Powers





Challenges

- **Ignorance**
 - The state of not knowing

- **Arrogance**
 - The habit of behaving based on pride, self-importance, conceit, or the assumption of intellectual superiority and the presumption of knowledge that is not supported by facts

- **Complacency**
 - Satisfaction with one's accomplishments, accompanied by a lack of awareness of actual dangers or deficiencies



"Good ideas are not adopted automatically. They must be driven into practice with courageous patience."

"Once implemented they can be easily overturned or subverted through apathy or lack of follow-up...a continuous effort is required."

- Hyman G. Rickover

Photo # NH 97570 Brass pipe recovered from USS Thresher debris field, 1963





Never Forget

Photo # NH 82320 USS Thresher (SSN-593) underway on the surface



Photo # NH 87117 Upper hull of the nuclear submarine Thresher photographed by USSA/Miami 1964



Vis Tacita : Silent Strength

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