

Executive Summary

Sustaining U.S. Nuclear Submarine Design Capabilities



John F. Schank, Mark V. Arena, Paul DeLuca, Jessie Riposo
Kimberly Curry, Todd Weeks, James Chiesa



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Sustaining U S Nuclear Submarine Design Capabilities

Tobias Bleicker



Sustaining U S Nuclear Submarine Design Capabilities:

Sustaining U.S. Nuclear Submarine Design Capabilities John F. Schank, Mark V. Arena, Paul DeLuca, Jessie Riposo, Kimberly Curry Hall, Kimberly Curry, 2007-06-14 Nuclear submarine design resources at the shipyards their suppliers and the Navy may erode for lack of demand Analysis of alternative workforce and workload management options suggests that the U S Navy should stretch out the design of the next submarine class and start it early or sustain design resources above the current demand so that the next class may be designed on time on budget and with low risk

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Sustaining U.S. Nuclear Submarine Design Capabilities John Frederic Schank, 2007 For the first time since the design of the first nuclear submarine the U S Navy has no nuclear submarine design program under way which raises the possibility that design capability could be lost Such a loss could result in higher costs and delays when the next submarine design is undertaken as well as risks to system performance and safety The authors estimate and compare the costs and delays of letting design capability erode vs those of alternative means of managing the workload and workforce over the gap in design demand and beyond The authors recommend that the Navy consider stretch

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Sustaining Key Skills in the UK Naval Industry Hans Pung, 2008 To preserve its ability to design build and support complex warships and submarines the UK Ministry of Defence MOD will need to preserve and sustain several key technical skills in the maritime domain particularly those of designers and engineers at various stages of surface ship and submarine acquisition and support Its current naval acquisition programme comprising several classes of vessels such as the

Astute class attack submarine and the Future Aircraft Carrier has brought forward questions regarding the MOD's ability to design build and support the intended fleet size Building on prior RAND research this monograph explores in greater detail the need for and retention of specific technical skills in the UK's naval industrial base It investigates the relationship between the demand created by the MOD's surface ship and submarine acquisition programme and the technical workforce needed to design build and support those war vessels The results reveal that although the MOD has taken into account the need for these skills its future naval programme likely will have to be modified or augmented to sustain these technical skills in the long term In particular the MOD needs to nurture design and engineering skills to bridge current and future gaps as its naval acquisition programme moves forward Publisher's website [Sustaining the Ability to Design Nuclear Submarines](#) ,2007 This research brief summarizes an analysis of workforce and workload management options to suggest ways to constrain the cost schedule and risk involved in the design of the U S Navy's next nuclear submarine class [Jane's Navy International](#) ,2008 **U.S. Navy Shipyards** Jessie Riposo,2008 RAND therefore investigated cost effective workforce management strategies alternative workload allocations and the relevant best practices of comparable organizations The authors concluded that the Navy uses practices common in other organizations to manage workload variability and uncertainty However the Navy's workload forecasts have consistently underestimated the eventual demand on the shipyards To accomplish the additional unplanned work the Navy has used overtime levels that significantly exceed cost effective levels P 4 of cover *Naval Engineers Journal* ,1998 *U.S. Naval Institute Proceedings* United States Naval Institute,2015

Department of Defense Appropriations United States. Congress. Senate. Committee on Appropriations,1994

Sustaining the Ability to Design Nuclear Submarine John Frederic Schank,Mark V. Arena,Paul DeLuca,Jessie Riposo,Kimberly Curry,Todd Weeks,James Chiesa,Acquisition and Technology Policy Center,Rand Corporation,2007 This research brief summarizes an analysis of workforce and workload management options to suggest ways to constrain the cost schedule and risk involved in the design of the U S Navy's next nuclear submarine class [American Book Publishing Record](#) ,2007 **hearings before the committee on armed services united states senate ninety-seventh congress second session on 2. 2248** ,1982 [Strategic Digest](#) ,2006

The United Kingdom's Nuclear Submarine Industrial Base: Sustaining design and production resources John Frederic Schank,Jessie Riposo,John Birkler,James Chiesa,2005 The complexity and uniqueness of a nuclear submarine require special skills facilities and oversight not supported by other shipbuilding programmes In fact a single shipyard Barrow in Furness designs and builds the United Kingdom's nuclear submarines and many of the vendors that support submarine construction are sole source providers With such specialisation in addition to a limited design and production demand there is concern about whether the submarine industrial base can maintain its viability into the future This report seeks to determine what actions should be taken to maintain nuclear submarine design capabilities and how nuclear submarine production should be scheduled for efficient use of the industrial

base Based on their findings the authors recommend that the Ministry of Defence determine the scheduling of construction for future submarine contracts as soon as possible plan to retain a design core of designers engineers and draughtsmen during periods of reduced demand and take steps towards collaboration with other countries *In Irons Harlan Ullman,1995* Proceedings of Manufacturing International '90: Advances in manufacturing systems ,1990 *Proceedings of the United States Naval Institute* United States Naval Institute,1982 *Congressional Record* United States. Congress,2007

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