

NSRP ASE Project Applicability Implementation Matrix

			National Shipbuilding Research Program Implementation Status of NSRP ASE Projects												
	Pgm Funds \$K	Total Funds \$K	Atlantic/BAE	Electric Boat	Bath	Bender	Bollinger	Manitowoc/MMC	NASSCO	NGSB -NN	NGSB-GC (P)	NGSB -GC (NO)	Todd	VT Halter	
Lean Enterprise Model	\$3,750	\$7,500	Impl	Appl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	
Integrated Shipbuilding Environment	\$20,035	\$40,070	Appl	Impl	Plan	Plan	Appl		Impl	Impl	Impl	Impl	Appl		
Shipbuilding Partners & Suppliers (SPARS)	\$6,440	\$12,880	Appl	Impl	Impl	Plan	Plan	Plan	Appl	Impl	Impl	Impl	Appl		
Advanced Structural Joining/Laser	\$2,175	\$6,500	Appl	Impl	Appl	Impl			Appl	Appl	Plan	Plan	Appl		
Laser-Assisted Oxygen Cutting (LASOX)	\$675	\$1,344	Appl		Appl	Impl			Appl	Appl	Plan	Appl	Appl		
Five-S	\$614	\$1,228	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	Impl	
Welding Emissions	\$1,050	\$2,100	Impl	Plan	Impl	Plan	Appl	Appl	Impl	Impl	Impl	Impl	Appl	Impl	
Line Heating	\$220	\$440	Impl		Appl	Plan	Appl		Appl	Appl	Impl	Impl	Appl	Impl	
Knowledge-Based Modular Repair	\$1,800	\$3,600	Impl		Appl	Appl			Appl	Appl	Appl	Appl	Appl		
Auto Generation of Control Programs for Welding Robots	\$788	\$1,573	Appl	Appl	Appl	Plan			Appl	Appl	Impl	Impl			
Ultra-High Pressure Water Blasting	\$286	\$570	Impl	Appl	Appl	Impl	Appl	Appl	Appl	Appl	Impl	Impl	Impl	Plan	
World Class Mfg. Model	\$1,315	\$2,630	Impl	Appl	Impl	Appl	Impl	Appl	Impl	Appl	Impl	Impl	Impl		
Material Standards	\$6,050	\$23,200	Impl	Impl	Impl	Plan	Appl	Appl	Impl	Impl	Appl	Appl	Appl	Impl	
Shipbuilding Appl Protocols	\$336	\$673	Appl	Plan	Appl	Plan	Appl		Appl	Impl	Plan	Plan	Appl		
Ergonomic Guidelines	\$417	\$834	Impl	Appl	Impl	Appl		Appl	Appl	Impl	Appl	Appl	Impl	Impl	
Crosscut Virtual Resource Center	\$642	\$1,183	Appl	Impl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	
Stormwater Treatment	\$506	\$1,036				Appl			Impl	Appl	Appl	Appl	Impl		
Integrated Steel Processing Environment	\$619	\$1,241	Appl	Appl	Appl				Appl	Appl	Appl	Appl	Impl	Impl	
Structural Fire Protection	\$282	\$571			Appl	Appl							Appl		
Stormwater MOP-UP	\$334	\$703	Appl			Appl			Appl	Appl			Appl		
FY 2003 Projects															
Extended Lean Enterprise	\$2,540	\$5,190	Impl	Appl	Impl	Appl	Impl	Impl	Appl	Impl	Impl	Impl	Impl	Appl	
Shipbuilding Partners & Suppliers (SPARS)-eDiscrepancy List/Report, Vendor Expedite	\$700	\$2,157	Appl	Impl	Appl	Appl	Plan	Plan	Appl	Impl	Impl	Impl	Appl		
Integrated Shipbuilding Environment-HVAC/CPC	\$1,241	\$2,517	Appl	Plan	Plan	Appl	Impl		Impl	Appl	Plan	Plan	Appl	Impl	
2nd Tier Shipyard Design Enhancement	\$1,250	\$3,220	Plan	Appl	Appl	Impl	Impl	Impl	Appl	Appl	Impl	Impl	Plan	Impl	
Common Parts Catalog	\$3,029	\$7,029	Appl	Impl	Impl	Impl	Plan	Appl	Appl	Impl	Impl	Impl	Plan	Plan	
Lean Simulation Training	\$185	\$370	Impl	Appl	Appl	Appl	Appl	Appl	Appl	Impl	Impl	Impl	Impl	Plan	
Wireless Equipment Monitoring	\$1,100	\$3,370	Appl	Appl	Appl	Plan		Appl	Impl	Plan	Impl	Plan	Appl		
FY 2004 / 2005 Projects															
Lean Business & Info Processes (SHIPWAY)	\$1,344	\$2,688	Impl	Appl	Impl	Plan	Impl	Appl	Appl	Impl	Impl	Impl	Impl		
Shipbuilding Partners & Suppliers - 2ndTier, RFID, VTDX, VREQ	\$1,525	\$3,355	Appl	Impl	Appl	Plan	Plan	Plan	Appl	Appl	Impl	Impl	Appl	Plan	
Integrated Shipbuilding Environment- ShipArr't, Steel, EngAnlys, Electrical	\$2,582	\$5,247	Appl	Plan	Appl	Appl	Appl		Appl	Impl	Appl	Appl		Plan	
2nd Tier SY Design Enhancement-CPC, Splitting & Merging	\$1,595	\$4,371	Plan		Appl	Impl	Impl	Impl				Plan	Appl	Impl	
Variable Bal. Submerged Arc Weld	\$282	\$569	Appl			Appl	Appl	Appl	Appl	Plan	Impl	Plan	Appl	Plan	
Portable Auto Deckplate Straightener	\$566	\$1,132	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Appl	Impl	Appl	Appl		
Ship Check Data Capture	\$725	\$1,455	Appl	Plan	Appl	Plan		Appl	Appl	Impl	Appl	Appl	Appl		
Lean Business & Info Processes (SHIPWAY 2.0)	\$1,872	\$3,745	Impl	Appl	Appl	Plan	Impl	Appl	Appl	Appl			Impl		
Shipbuilding Partners & Suppliers - Asset T&M, Webinar, Bus Intel, Billing/Tracking, VRATE, VNONCO, VFI Plus	\$2,900	\$6,332	Appl	Impl	Appl	Appl	Plan	Plan	Appl	Appl	Impl	Impl			
Integrated Shipbuilding Env - Prod Life Cycle	\$1,900	\$3,859	Appl	Plan	Appl	Plan			Appl	Appl	Appl	Appl			

NSRP ASE Project Applicability Implementation Matrix

			National Shipbuilding Research Program Implementation Status of NSRP ASE Projects												
			Atlantic/ BAE	Electric Boat	Bath	Bender	Bollinger	Manitowoc/ MMC	NASSCO	NGSB -NN	NGSB-GC (P)	NGSB - GC (NO)	Todd	VT Halter	
			Pgm Funds \$K	Total Funds \$K											
FY2006 Projects	2nd Tier SY Design Enhance - Weld Plan, Electr, Educ, Component Library, Autodesk Inventor	\$4,420	\$9,510	Appl		Appl	Impl	Impl	Impl			Impl	Impl		Impl
	Gas Metal Arc Welding for Thin Steel & AL	\$243	\$487	Appl			Appl	Appl	Impl	Appl	Appl	Appl	Appl		
	Portable Auto Bulkhead & Hull Straightener	\$825	\$1,650	Appl	Appl	Appl	Plan	Appl	Appl	Appl	Appl	Impl	Appl		
	Full Ship Modeling and Simulation	\$1,000	\$2,000	Appl	Plan				Appl		Appl	Impl	Impl		
	Improved Affordability for Joining Composite Structures	\$992	\$1,984	Appl					Appl	Appl		Plan	Plan		
	Design for Prodcution for Mid-Tier Shipyards	\$742	\$1,484	Impl			Impl	Impl	Plan		Appl	Appl	Appl	Impl	Impl
	Career Days	\$213	\$427	Appl		Appl	Plan	Impl	Appl	Appl	Impl	Appl	Appl		
	Residual Risk Ruling	\$1,125	\$1,250	Appl		Appl	Appl		Appl	Plan	Appl	Appl	Appl		
FY 2008 Projects	Customization of Web-Based Planning	\$542	\$1,072	Impl				Impl							
	Practical Applications of DFP	\$1,300	\$2,800		Appl		Appl	Impl		Appl	Impl	Appl	Appl		
	Shipbuilding Partners and Suppliers - Supply Chain Management, Information Assurance, Test	\$985	\$2,080		Impl	Impl				Appl	Impl	Impl	Impl		
	Large Scale Computer Simulation Modeling for Shipbuilding	\$1,400	\$2,500		Plan		Appl			Impl	Appl				
	Development of Manufacturing and Assembly Technology for Low Cost Pultruded Composites	\$1,100	\$2,200									Appl	Appl		
	Advanced Systems Development for a Remote Climbing Robot for Automating Welding Processes in the Shipbuilding Industry	\$126	\$272			Impl	Appl	Appl		Appl	Appl	Impl	Impl		Impl
	Modern Shipbuilding Design	\$697	\$1,613				Impl	Impl	Appl	Appl	Appl	Appl	Appl		
	Virtual Reality Welder Training System	\$1,700	\$2,000		Plan		Appl	Appl		Appl	Appl	Appl	Appl		
	Improved Methods for Generation of Full-Ship Simulation/Analysis Models 2	\$1,100	\$2,200		Plan		Appl				Appl	Impl	Impl		
				Impl	Project results have already been implemented at the yard(s) indicated										
				Plan	Project results are planned for implementation at the yard(s) indicated										
				Appl	Project results are applicable to work done in the yards indicated, and could be implemented there in the future										