


# Reducing Rework in Heat affected Zones

PROJECT IMAGE	OBJECTIVE
	<p>Identify and implement methods to reduce the cost and schedule impact of coating rework. Identify temperatures on back sides of coated areas that will lead to rework and deficiencies in coating performance. From data captured in this program NSRP will be able to improve planning and increased awareness by other trades of how not increase rework. Understand in what scenarios coating rework is necessary; and reduce the amount of rework by knowing coatings limits.</p> <p>TIP Items: 7.2.2.1.4, 7.2.2.2.4, 7.2.2.5.1, 7.3.2.7.3</p>
BENEFITS/ROI	PROJECT INFORMATION/FINANCIAL
<ul style="list-style-type: none"> <li>• Report the affects varying heat affected zones have on coating systems in terms of adhesion and overall performance.</li> <li>• Report costs of rework inefficiencies, w/recommended methods to decrease rework costs and make improvements</li> <li>• Determine what percentage reduced rework may be in the overall coatings cost in new construction</li> </ul>	<p><b>Project Lead/Team Members:</b> <b>Elzly Technology</b>, HII-Newport News Shipbuilding, General Dynamics - Bath Iron Works, Fincantieri Marine Repair, General Dynamics - Nassco</p> <p><u>Duration:</u> 12 Months</p> <p>Program Funds: \$200K            Cost Share: \$0            Public Sector: \$0</p>

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- Coating rework is a significant cost driver in Navy shipbuilding due to ship complexity and the extent of late-stage outfitting
- Project will:
  - Determine max temps on back side of painted spaces
  - Determine Adhesion and performance affects of high temperatures on backsides of painted areas
  - ID and share best practices among yard coating experts
- This project will provide
  - Develop a guide/training materials to facilitate knowledge across shipyards
  - Develop training materials to educate non-paint trades on impact of their activities on coating rework
  - Provide a final report with data on findings