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## Environmental, Health and Safety Contractor Resource Manual

Newport News Shipbuilding

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| <b>Contractor Resource Manual<br/>Revision Record</b> |             |   |
|---|-------------|---|
| <b>Revision</b>                                       | <b>Date</b> | <b>Description</b>  |
| 1   | 4/1/2001    | Original Issue  |
| 2   | 1/20/2002   | <ul style="list-style-type: none"> <li>• Extensive changes to Appendix C, <i>Contractor Health and Safety Evaluation Form</i></li> <li>• Numerous changes to reflect new company name.</li> </ul>   |
| 3   | 5/30/03     | <ul style="list-style-type: none"> <li>• The entire paint tracking section has been re-written to reflect new requirements of Newport News's Title V Air Permit and to clarify requirements of paint NESHAP requirements. (Part III, Paint Tracking Requirements)</li> <li>• Added requirements for contractors who enter the "dirty" side of a dust collector to wear respirators and to use exhaust ventilation if removing or disturbing used (dusty) bags. (Part II, Confined Spaces)</li> <li>• Added requirements for contractor companies to respond in writing for observed safety violations. (Part I)</li> <li>• Significant revisions to the confined space procedures. (Part II, Confined Spaces)</li> <li>• Complete re-write of requirements for handling PCBs. (Part III, PCB)</li> <li>• Clarify that electrical lines may not be run using yellow "S" or "J" hooks. (Part II, Fire Protection)</li> <li>• Added a prohibition against exiting elevated JLGs unless strict conditions are met. (Part II, Aerial and Scissors Lifts)</li> <li>• Added a requirement that personnel handling equipment on barges or scows without bumpers be securely lashed or wheels chocked. (Part II, Aerial and Scissors Lifts)</li> </ul> |
| 4   | 1/23/04     | <ul style="list-style-type: none"> <li>• Modified Form NN-9173 (Rev 0), <i>Contractor Environmental, Health and safety Evaluation Form</i>.</li> </ul>  |



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|---|-------------|---|
| <b>Revision</b>                                       | <b>Date</b> | <b>Description</b>  |
| 5   | 11/15/04    | <p style="text-align: center;"><u>Fire Prevention</u></p> <ul style="list-style-type: none"> <li>• The Evaluation Form has been modified to include new fire prevention requirements (Part II, Fire Protection)</li> <li>• Requirements to notify the shipyard of fire hazards caused or discovered by the contractor have been added. (Part II, Fire Protection)</li> <li>• Contractors are required to be familiar with location-specific shipyard emergency Action Plans (Part II, Fire Protection)</li> <li>• Torch start-up and shut-down procedures have been modified (Part II, Fire Protection)</li> <li>• Editorial changes to the section concerning Hot Work Permits for facility work (Part II, Fire Protection)</li> <li>• The description of a “brief shutdown” as it pertains to hot work has been modified to “less than 15 minutes” from “15 minutes or less”. (Part II, Fire Protection)</li> <li>• Removed the provision that hot work permits are not required on new construction prior to the first fuel oil or lube oil loading. (Part II, Fire Protection)</li> </ul> <p style="text-align: center;"><u>Lockout / Tagout</u></p> <ul style="list-style-type: none"> <li>• Procedures for filling-out and installing tags have been modified. (Part II, Control of Hazardous Energy)</li> </ul> <p style="text-align: center;"><u>Paint Tracking</u></p> <ul style="list-style-type: none"> <li>• Paint tracking section has been updated to remove monitoring requirements and to add record keeping and reporting requirements for all paint usage at the yard. (Part III, Paint Tracking Requirements)</li> <li>• The Newport News Shipbuilding Coating Receipt Form, Inspection Form, and Paint/Solvent Container Integrity Inspection Form have been deleted. (Part IV, Appendix)</li> <li>• The Northrop Grumman Newport News Paint Usage and NGNN Waiver Request for Thinning Coatings Forms in the Appendix have been modified. (Part IV, Appendix)</li> </ul> |



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| <b>Revision</b>                                       | <b>Date</b> | <b>Description</b>   |
| 6   | 8/26/05     | <ul style="list-style-type: none"> <li>• Revised Resource Manual website</li> <li>• Extensive editorial/updates throughout entire manual</li> <li>• Updated Table of Contents</li> <li>• Revised O27 Contractor Section phone numbers (Part I, Environmental, Health and Safety at NGNN)</li> <li>• Revised evaluation process time (Part I, Contractor Program at NGNN)</li> <li>• Added Non-Operating Crane Access Pass and Surveillance requirements (Part II, Cranes)</li> <li>• Revised requirements for welding, burning and heating, hotwork permits and fire watches (Part II, Fire Protection)</li> <li>• Added requirements to Specific Requirements for Torch Equipment (Part II, Fire Protection)</li> <li>• Modified and added to existing exceptions for spaces immediately adjacent to spaces that contain or have contained combustible or flammable liquids and gases for Land and facility operations (Part II, Fire Protection)</li> <li>• Added requirements for reporting fires (Part II, Fire Prevention)</li> <li>• Added requirements for Shipboard Work Control and Energy (Part II, Hazardous Energy Control)</li> <li>• Modified requirements for Shipboard Hazardous Energy Control (Part II, Hazardous Energy Control)</li> <li>• Added requirements for vacuum cleaners and for Rad Source Instrumentation (Part III, Waste Management)</li> <li>• Added wastewater requirements for contractors trailers, sinks and washbasins (Part III, Liquid Waste and Water Pollution Prevention)</li> <li>• Revised requirements for sampling and discharge, labels, drip pans and spillage control (Part III, Liquid Waste and Water Pollution Prevention)</li> <li>• Revised Appendix B, <i>Contractor Environmental, Health and Safety Evaluation Form</i></li> <li>• Updated contact persons on Appendix C, <i>NGNN Environmental Permits</i></li> <li>• Updated Appendix D, <i>Health and Safety Program Assistance</i></li> <li>• Updated Appendix H, <i>NGNN Waste Material and Hazard Warning Labels</i></li> </ul> |
| 7   | 11/08/05    | <ul style="list-style-type: none"> <li>• Removed NGNN Proprietary statement with copyright statement.</li> <li>• Changed name of Dept. O48 from Crane Engineering &amp; Maintenance to Crane Engineering &amp; Quality (Part II, Cranes)</li> <li>• Updated the Certificate of Compliance form for cranes (Part IV, Appendices)</li> </ul>   |



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| Revision  | Date       | Description   |
| 8   | 12/06/2006 | <ul style="list-style-type: none"> <li>• Added a chapter for Hexavalent Chromium.</li> <li>• Updated the Contractor Environmental, Health and Safety Evaluation Form to revision 3 to include Hexavalent Chromium.</li> <li>• Minor editorial changes to the Confined Space chapter.</li> </ul>   |
| 9   | 04/23/2007 | <ul style="list-style-type: none"> <li>• Consolidated part II section D, Asbestos, and procedure S-1008, <i>Asbestos Procedure for Contractors</i> and moved all asbestos requirements into part II section D of this manual. The consolidation did not result in any substantive change in asbestos work requirements.</li> </ul>  |
| 10  | 10/11/10   | <ul style="list-style-type: none"> <li>• Extensive editorial/updates throughout entire manual</li> <li>• Updated Table of Contents</li> <li>• Changed NGNN to NNS throughout entire manual.</li> <li>• Part I – Added requirements for handling Universal Waste.</li> <li>• Arsenic – Updated regulations and requirements.</li> <li>• Asbestos – Updated definitions, references and Asbestos worker qualifications; updated 9.d - Asbestos Work Area – Establishment; Page 9 - Updated “Special Clothing” Controls; Appendix A – Removed “Drilling into asbestos containing material.”; Appendix C – Added requirements for asbestos removal.</li> <li>• Chrome Si x – updated work areas; new sign added; Page 2 - updated reference; Appendix 2 – removed minimum requirements for removal of Chrome containing paints table. Appendix 4 is now Appendix 3: Paint Sampling.</li> <li>• Confined Spaces – Added new section “Vent Plenums.”</li> <li>• Definitions – added Universal Waste &amp; Universal Waste Handler; updated requirements for Ignitable Waste.</li> <li>• Environmental Permits - Updated contact list; Added permit agency – VDEQ.</li> <li>• Evaluation Form – updated.</li> <li>• Excavations – Updated requirements for controls in excavation areas.</li> <li>• Facilities Excavation Permit – Updated form.</li> <li>• Fire Protection – Standards updated; Requirements for Hot Work.</li> <li>• Hazardous Energy Control – Removed “Work &amp; Testing of Electrical Systems” &amp; Live Circuits from section. Moved to “Electrical.”</li> <li>• Liquid Waste – updated requirements for disinfecting cleaning sanitary tanks on ships; Removed all references related to Consolidated Waste Facility (CWF) and replaced with Material Recycling Facility (MRF); removed reference to O67 – 18.1(cancelled) and replaced with Y-1112.</li> </ul> |



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| Revision  | Date                     | Description   |
|   |                          | <ul style="list-style-type: none"> <li>• LOTO - Updated NNS references; requirements for non-shipboard Hazardous Energy Control.</li> <li>• Managing Environmental Hazards – Updated Federal and State environmental requirements.</li> <li>• Oil Transfer Ops – Updated regulations; response and countermeasure plans.</li> <li>• Paint Tracking Requirements - Updated regulatory references, Batch Certifications, Record-keeping requirements and painting of non-ship parts.</li> <li>• PCBs – Updated training for handling of PCBs; Updated potential sources of PCBs; deleted Instructions for Sampling PCBs table; deleted sampling Rubber and Gasket Material and specific requirements applicable to sample plans; deleted PCB Airborne Hazard table and items for reuse; deleted Background PCB Information and table.</li> <li>• Resource List – Updated links, addresses and phone numbers.</li> <li>• Scissor Lifts – Part II.C.1 - updated requirements for mobile equipment. Part II.C.3 – added note for best management practices at NNS.</li> <li>• Sewage – Updated hazards, references and requirements.</li> <li>• New – Abrasive Blasting</li> <li>• New - Electrical</li> <li>• New – Ionizing Radiation</li> <li>• New – PPE</li> <li>• New – Scaffolding &amp; Fall Protection.</li> <li>• Waste Management – Updated references and regulations; added universal waste bulbs and batteries.</li> </ul> |
| 11  | 03/31/11                 | <ul style="list-style-type: none"> <li>• Changed Northrop Grumman to Newport News Shipbuilding throughout manual.</li> <li>• Changed NGNN to NNS throughout manual.</li> <li>• Added a requirement that asbestos work plans include notification of NNS in the event of spills &amp; releases of asbestos.</li> <li>• Change to internal requirements for employee accessed scaffolding/staging.</li> </ul>   |
| 12  | 03/23/20 –<br>10/26/2020 | <ul style="list-style-type: none"> <li>• Updated Table of Content</li> <li>• Updated Part 1</li> <li>• <b>Added new Section – Beryllium</b></li> <li>• Updated Section – <i>Radiation Ionizing</i></li> <li>• Updated Section – <i>Confined and Enclosed Spaces</i></li> <li>• Updated Section – <i>Cranes</i></li> <li>• Updated Section – <i>Electrical</i></li> <li>• Updated Section – <i>Environmental Permits</i></li> </ul>  |



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| Revision                                      | Date | Description  |
|   |      | <ul style="list-style-type: none"><li>• Updated Section - <i>Excavations</i></li><li>• Updated Section - <i>Fire Safety</i></li><li>• Updated Section – <i>Hazard Communication</i></li><li>• Updated Section – <i>PCBs</i></li><li>• Updated Section – <i>PPE</i></li><li>• Updated Section – <i>Scaffolding and Fall Protection</i></li><li>• Updated Section – <i>Scissors Lifts</i></li><li>• <b>Added new Section – <i>Silica</i></b></li><li>• Updated Appendix – <i>Definitions</i></li><li>• Updated Appendix – <i>Evaluation Form</i></li><li>• Updated Appendix – <i>Resource List</i></li><li>• Replaced Header and Footer throughout entire document</li></ul> |
|   |      | <ul style="list-style-type: none"><li>•</li></ul>  |