

REQUEST FOR CLARIFICATION, DEVIATION, OR REVISION

CHECK APPROPRIATE BOX	<input checked="" type="checkbox"/>	CLARIFICATION	<input type="checkbox"/>	DEVIATION	<input type="checkbox"/>	REVISION	<input type="checkbox"/>
ACTIVITY Navy Crane Center			ACTIVITY REQUEST NUMBER N3258A-14-001				
WHE NUMBER N/A		MANUFACTURER N/A			SPS CRANE Yes _____ No <input checked="" type="checkbox"/>		
SUBJECT Clarification of Hoist Backup Upper Limit Switch Testing							
PREPARED BY ██████████		PHONE ██████████		FAX 3808		DATE 7/16/2014	
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CONTRACTING OFFICER'S REPRESENTATIVE (IF PREPARED AND APPROVED BY CONTRACTOR)		PHONE N/A		FAX N/A		DATE N/A	
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REFERENCE(S) NAVFAC P-307 Condition Inspection Item 7, Appendix C Item 70, Appendix D Item 29, and Appendix E paragraphs 6.1.1.b and 7.1.1.b.							
ENCLOSURE(S) N/A							
PURPOSE To clarify the requirements for testing hoist backup upper limit switches.							
BACKGROUND There have been recent verbal reports that hoist backup upper limit switches have not been completely tested and NAVFAC P-307 requirements are inconsistent and not clear on how the switch shall be tested when comparing different categories of cranes. The referenced paragraphs require the hoist backup upper limit switch to be tested but do not specify how the switch is to be tested.							
DISCUSSION The referenced paragraphs require the hoist backup upper limit switch to be tested but do not specify how the switch is to be tested. By comparison, NAVFAC P-307, Appendix, E, paragraph 2.1.1.d specifies testing of the hoist backup upper limit switch on portal cranes by raising the hook slowly into the backup limit switch. The referenced paragraphs above for testing of the switch for category 2 and 3 cranes do not specify testing of the switch by raising the hook (or block) into the switch. Consequently there are reports of some testing being performed by manually activating the switch. This type of testing would ensure the switch circuitry is functioning but would not necessarily ensure that the switch activates at a level that would actually prevent two-blocking, therefore it is not considered a complete test of the switch.							
REQUEST Clarify the testing requirements of the hoist backup upper limit switch for the referenced paragraphs.							

NAVY CRANE CENTER RESPONSE

To completely test the hoist backup upper limit switch the switch shall be tested by bypassing the primary upper hoist limit switch and using the block to activate the backup upper hoist limit switch at the slowest possible speed. This testing is applicable to all referenced paragraphs.

The intent of these requirements is to test the hoist backup upper limit switch completely (that is, activating the switch as designed and ensuring all components and circuits perform as designed) once during the maintenance inspection, condition inspection, and test (no-load or load) cycle. The condition inspection, item 7 will be revised during the upcoming revision to NAVFAC P-307 to reflect similar wording that exists regarding the hook lower limit switch, that is, that the hoist backup limit switch may be tested during the maintenance inspection in lieu of the condition inspection. Other referenced paragraphs will be revised for clarification as well.

Until the next revision to NAVFAC P-307 is issued, Navy activities are advised that for cranes with hoist backup upper limit switches that have not been tested in the manner noted above, activities are not required to remove their cranes from service, but shall ensure that these limit switches are tested as noted above at their cranes' next regularly scheduled certification.

NAVY CRANE CENTER CONTROL NUMBER

14-032

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