WAC 296-155-56215 Remotely operated lifting magnets. (1) Remotely operated lifting magnets must be constructed in accordance with ASME B30.20-2010, Below-the-Hook Lifting Devices.

(2) Identification. All remotely operated lifting magnets must be marked with the following information:

(a) Manufacturer's name and address;

(b) Model or unit identification;

(c) Weight of lifting magnet;

(d) Duty cycle;

(e) Cold current;

(f) Voltage;

(g) If repaired or modified, name and address of repairer or modifier and (a) through (g) of this subsection if changed.

(3) You must install lifting magnets according to manufacturer's instructions.

(4) Inspections.

(a) A qualified person must inspect all new, altered, repaired or modified lifting magnets according to Tables 36 and 37. A qualified person can limit the inspection of altered, repaired or modified lifting magnets to the parts affected.

(b) Lifting magnets must be inspected, by the operator or another competent person, according to Table 36.

(c) A qualified person must determine whether signs of damage indicate a hazard.

(d) You must correct hazardous conditions before continuing use.

(e) A qualified person must perform periodic inspections of remotely operated lifting magnets according to Table 37. Include the items in Table 36.

(f) Make records of apparent external conditions to provide the basis for a continuing evaluation.

(g) You must correct hazardous conditions before continuing use.

Table 36
Remotely Operated Lifting Magnet Frequent Inspection

Inspect:	How often:
Structural and suspension members for: • Deformation. • Cracks. • Excessive wear on any part of the lifting magnet.	• Normal service - Monthly. • Heavy service - Weekly to monthly. • Severe service - Daily to weekly. • Special or infrequent service - As recommended by a qualified person before and after each occurrence.
The lifting magnet face for: • Foreign materials. • Smoothness.	• Before using, when a lifting magnet has been idle for more than one month.

Inspect:	How often:
Electrical conductors that are visible without disassembly.	
Cracked housings, welds, and loose bolts.	

Note: • Normal service means service that involves operation with various weights within the rated load limit, averaging less than 65% of rated load limits.
• Heavy service means service that involves operation within the rated load limit, that exceeds the limits of normal service.
• Severe service means service that involves normal or heavy service with abnormal operating conditions.

Table 37
Remotely Operated Lifting Magnet Periodic Inspection

Inspect:	How often:
Members, fasteners, and lifting parts for: • Deformation. • Wear. • Corrosion.	• Normal service for equipment in place - Yearly. • Heavy service - Quarterly. • Severe service - Monthly. • Special or infrequent service - As recommended by a qualified person before the first occurrence and as directed by the qualified person for any subsequent occurrences.
All electrical components for: • Proper operation. • Condition.	
Magnet coil for: • Ohmic and ground readings compared to manufacturer's standards.	

(5) Operational tests.

(a) All new, altered, repaired or modified lifting magnets must be tested either by or under the direction of a qualified person before use. The qualified person can limit the testing of altered, repaired or modified lifting magnets to the parts affected.

(b) You must test the following items:

(i) All electrical equipment for proper operation;

(ii) Warning devices, including:

(A) Indicator lights;

(B) Gauges;

(C) Horns;

(D) Bells; and

(E) Pointers.

(c) You must keep dated reports of all operational tests on file.

(6) Repair.

(a) You must repair remotely operated lifting magnets as follows:

(i) Have adjustments and testing done only by or under the direction of a qualified person;

(ii) Use replacement parts that are at least equal to the original manufacturer's specifications; and

(iii) Inspect the lifter according to subsection (4) of this section, before returning to service.

(b) You must take the following precautions before repairs on a lifter are started:

(i) Disconnect, lock out and tag all sources of power "Out of Service."

(ii) Tag any magnet removed from service for repair "Out of Service."

(7) Lifting devices must be operated only by qualified personnel.

(8) Operators must do the following:

(a) Test all controls before use during a shift;

(b) Consult a competent person before handling the load whenever there is any doubt as to safety;

(c) Respond only to instructions from competent persons, except for stop orders. Operators must obey a stop order at all times, no matter who gives it;

(d) Do not load the lifting magnet in excess of its rated load or with any load that it is not specifically designed for;

(e) Apply the lifting magnet to the load according to the instruction manual;

(f) Check that:

(i) Lifter ropes or chains are not kinked;

(ii) Multiple part lines are not twisted around each other.

(g) Bring the lifting magnet over the load in a way that minimizes swinging;

(h) Keep the load or magnet from contact with any obstruction;

(i) Set down any attached load and store the lifting magnet before leaving it;

(j) Check that all people are clear of the load;

(k) Using the lifter for side pulls or sliding the load is prohibited, unless specifically authorized by a qualified person; and

(l) Riding on loads or the lifting magnet is prohibited.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 16-09-085, § 296-155-56215, filed 4/19/16, effective 5/20/16. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.440, 49.17.060, and 29 C.F.R. 1926, Subpart CC. WSR 12-01-086, § 296-155-56215, filed 12/20/11, effective 2/1/12.]