SUBSTITUTE SENATE BILL 5990

State of Washington 60th Legislature 2007 Regular Session

By Senate Committee on Labor, Commerce, Research & Development (originally sponsored by Senators Kohl-Welles, Weinstein, Murray, Roach, Hobbs, Fairley, Keiser, Eide, Rasmussen, Oemig, Fraser, Berkey, Tom, Regala, Franklin, Prentice, Spanel, Sheldon, Clements, Jacobsen, Haugen, Hargrove, Pridemore, Kauffman, Kastama, Kilmer, Shin, McAuliffe, Rockefeller, Honeyford, Poulsen and Kline)

READ FIRST TIME 02/28/07.

1 AN ACT Relating to crane safety; adding new sections to chapter 2 49.17 RCW; creating a new section; and providing an effective date.

3 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

<u>NEW SECTION.</u> Sec. 1. The legislature intends to promote the safe condition and operation of cranes used in construction work by establishing certification requirements for construction cranes and qualifications for construction crane operators. The legislature intends that standards for safety of construction cranes and for certification of personnel operating cranes in construction work be established.

11 <u>NEW SECTION.</u> Sec. 2. A new section is added to chapter 49.17 RCW 12 to read as follows:

13 The definitions in this section apply throughout sections 2 through 14 5 of this act unless the context clearly requires otherwise.

(1) "Apprentice operator or trainee" means a crane operator who has not met requirements established by the department under section 5 of this act. (2) "Attachments" includes, but is not limited to, crane-attached
 or suspended hooks, magnets, grapples, clamshell buckets, orange peel
 buckets, concrete buckets, drag lines, personnel platforms, augers, or
 drills and pile-driving equipment.

5 (3) "Certified crane inspector" means a crane inspector who has6 been certified by the department.

7 (4) "Construction" means all or any part of excavation, construction, erection, alteration, repair, demolition, and dismantling 8 9 of buildings and other structures and all related operations; the excavation, construction, alteration, and repair of sewers, trenches, 10 caissons, conduits, pipelines, roads, and all related operations; the 11 moving of buildings and other structures, and the construction, 12 alteration, repair, or removal of wharfs, docks, bridges, culverts, 13 trestles, piers, abutments, or any other related construction, 14 alteration, repair, or removal work. "Construction" does not include 15 16 manufacturing facilities or powerhouses.

17 (5) "Crane" means power-operated equipment used in construction that can hoist, lower, and horizontally move a suspended load. "Crane" 18 19 includes, but is not limited to: Articulating cranes, such as knuckle-20 boom cranes; crawler cranes; floating cranes; cranes on barges; 21 locomotive cranes; mobile cranes, such as wheel-mounted, rough-terrain, 22 all-terrain, commercial truck mounted, and boom truck cranes; 23 multipurpose machines when configured to hoist and lower by means of a 24 winch or hook and horizontally move a suspended load; industrial 25 carry-deck cranes; dedicated pile drivers; cranes, such as service/mechanic trucks with a hoisting device; a crane on a monorail; 26 27 tower cranes, such as fixed jib, hammerhead boom, luffing boom, and self-erecting; pedestal cranes; portal cranes; overhead and gantry 28 29 cranes; straddle cranes; side-boom tractors; derricks; and variations 30 of such equipment.

31 (6) "Crane operator" means an individual engaged in the operation 32 of a crane.

33 (7) "Professional engineer" means a professional engineer as34 defined in RCW 18.43.020.

35 (8) "Qualified crane operator" means a crane operator who meets the 36 requirements established by the department under section 5 of this act. 37 (9) "Safety or health standard" means a standard adopted under this 38 chapter.

<u>NEW SECTION.</u> Sec. 3. A new section is added to chapter 49.17 RCW
 to read as follows:

3 (1) Sections 2 through 5 of this act apply to cranes used with or4 without attachments.

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(2) Sections 2 through 5 of this act do not apply to:

6 (a) A crane while it has been converted or adapted for a
7 nonhoisting or nonlifting use including, but not limited to, power
8 shovels, excavators, and concrete pumps;

9 (b) Power shovels, excavators, wheel loaders, backhoes, loader 10 backhoes, and track loaders when used with or without chains, slings, 11 or other rigging to lift suspended loads;

12 (c) Automotive wreckers and tow trucks when used to clear wrecks13 and haul vehicles;

14 (d) Service trucks with mobile lifting devices designed specifically for use in the power line and electric service industries, 15 16 such as digger derricks (radial boom derricks), when used in the power 17 line and electric service industries for auguring holes to set power and utility poles, or handling associated materials to be installed or 18 19 removed from utility poles;

(e) Equipment originally designed as vehicle-mounted aerial devices
 (for lifting personnel) and self-propelled elevating work platforms;

22 (f) Hydraulic jacking systems, including telescopic/hydraulic 23 gantries;

24 (g) Stacker cranes;

25 (h) Powered industrial trucks (forklifts);

(i) Mechanic's truck with a hoisting device when used in activitiesrelated to equipment maintenance and repair;

28 (j) Equipment that hoists by using a come-along or chainfall;

29 (k) Dedicated drilling rigs;

30 (1) Gin poles used for the erection of communication towers;

31 (m) Tree trimming and tree removal work;

32 (n) Anchor handling with a vessel or barge using an affixed A-33 frame;

34 (o) Roustabouts;

35 (p) Cranes used on-site in manufacturing facilities or powerhouses 36 for occasional or routine maintenance and repair work; and

37 (q) Crane operators operating cranes on-site in manufacturing

facilities or powerhouses for occasional or routine maintenance and
 repair work.

3 <u>NEW SECTION.</u> Sec. 4. A new section is added to chapter 49.17 RCW
4 to read as follows:

5 (1) The department shall establish, by rule, a crane certification 6 program for cranes used in construction. In establishing rules, the 7 department shall consult nationally recognized crane standards.

8 (2) The crane certification program must include, at a minimum, the 9 following:

10 (a) The department shall establish certification requirements for 11 crane inspectors, including an experience requirement, an education 12 requirement, a training requirement, and other necessary requirements 13 determined by the director;

(b) The department shall establish a process for certified crane inspectors to issue temporary certificates of operation for a crane and the department to issue a final certificate of operation for a crane after a certified crane inspector determines that the crane meets safety or health standards, including meeting or exceeding national periodic inspection requirements recognized by the department;

20 (c) Crane owners must ensure that cranes are inspected and load 21 proof tested by a certified crane inspector at least annually and after any significant modification or significant repairs of structural 22 23 If the use of weights for a unit proof load test is not parts. 24 possible or reasonable, other recording test equipment may be used. In adopting rules implementing this requirement, the department may 25 26 consider similar standards and practices used by the federal 27 government;

(d) Tower cranes and tower crane assembly parts must be inspected by a certified crane inspector both prior to assembly and following erection of a tower crane;

31 (e) Before installation of a nonstandard tower crane base, the 32 engineering design of the nonstandard base shall be reviewed and 33 acknowledged as acceptable by an independent professional engineer;

(f) A certified crane inspector must notify the department and the
 crane owner if, after inspection, the certified crane inspector finds
 that the crane does not meet safety or health standards. A certified

1 crane inspector shall not attest that a crane meets safety or health 2 standards until any deficiencies are corrected and the correction is 3 verified by the certified crane inspector; and

4 (g) Inspection reports including all information and documentation
5 obtained from a crane inspection shall be made available or provided to
6 the department by a certified crane inspector upon request.

7 (3) Except as provided in section 3(2) of this act, any crane 8 operated in the state must have a valid temporary or final certificate 9 of operation issued by the certified crane inspector or department 10 posted in the operator's cab or station.

(4) Certificates of operation issued by the department under the crane certification program established in this section are valid for one year from the effective date of the temporary operating certificate issued by the certified crane inspector.

15 (5) This section does not apply to maritime cranes regulated by the 16 department.

17 <u>NEW SECTION.</u> Sec. 5. A new section is added to chapter 49.17 RCW 18 to read as follows:

(1) Except for training purposes as provided in subsection (3) of this section, an employer or contractor shall not permit a crane operator to operate a crane unless the crane operator is a qualified crane operator.

(2) The department shall establish, by rule, requirements that must be met to be considered a qualified crane operator. In establishing rules, the department shall consult nationally recognized crane standards for crane operator certification. The rules must include, at a minimum, the following:

The crane operator must have a valid crane operator 28 (a) certificate, for the type of crane to be operated, issued by a crane 29 30 operator testing organization accredited by a nationally recognized 31 accrediting agency which administers written and practical examinations, has procedures for recertification that enable the crane 32 33 operator to recertify at least every five years, and is recognized by 34 the department;

35 (b) The crane operator must have up to two thousand hours of 36 documented crane operator experience, which meets experience levels

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established by the department for crane types and capacities by rule;
 and

3 (c) The crane operator must pass a substance abuse test conducted4 by a recognized laboratory service.

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(3) An apprentice operator or trainee may operate a crane when:

6 (a) The apprentice operator or trainee has been provided with 7 training prior to operating the crane that enables the apprentice 8 operator or trainee to operate the crane safely;

9 (b) The apprentice operator or trainee performs operating tasks 10 that are within his or her ability, as determined by the supervising 11 qualified crane operator; and

12 (c) The apprentice operator or trainee is under the direct and 13 continuous supervision of a qualified crane operator who meets the 14 following requirements:

(i) The qualified crane operator is an employee or agent of theemployer of the apprentice operator or trainee;

17 (ii) The qualified crane operator is familiar with the proper use 18 of the crane's controls;

19 (iii) While supervising the apprentice operator or trainee, the 20 qualified crane operator performs no tasks that detract from the 21 qualified crane operator's ability to supervise the apprentice operator 22 or trainee;

(iv) For equipment other than tower cranes, the qualified crane operator and the apprentice operator or trainee must be in direct line of sight of each other and shall communicate verbally or by hand signals; and

(v) For tower cranes, the qualified crane operator and the apprentice operator or trainee must be in direct communication with each other.

30 (4) The department may recognize crane operator certification from 31 another state or territory of the United States as equivalent to 32 qualified crane operator requirements if the department determines that 33 the other jurisdiction's credentialing standards are substantially 34 similar to the qualified crane operator requirements.

35 <u>NEW SECTION.</u> Sec. 6. A new section is added to chapter 49.17 RCW 36 to read as follows:

1 The department of labor and industries shall adopt rules necessary 2 to implement sections 2 through 5 of this act.

3 <u>NEW SECTION.</u> Sec. 7. This act takes effect January 1, 2010.

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