## CALIFORNIA INDUSTRIAL HYGIENE COUNCIL

Advancing public policy to improve the health and safety of workers and the community.

> January 14, 2019 Via email: <u>rs@dir.ca.gov</u>

Ms. Amalia Neidhardt Senior Safety Engineer Division of Occupational Safety and Health California Department of Industrial Relations 1515 Clay Street Oakland, CA 94612

RE: Discussion Draft Regulations Occupational Exposure to Surgical Plume

Dear Ms. Neidhardt:

The California Industrial Hygiene Council (CIHC) appreciates the opportunity to comment on the discussion draft regulations for occupational exposure to surgical plume. The CIHC understands that this is a draft of possible language in response to Occupational Safety and Health Standards Board Petition 567, and that this draft is for discussion purposes only, and is not a rulemaking proposal.

## General Comment on the need for the Standard:

The science is not settled as to the health risks of exposure to surgical plume. Research on occupational exposure to the components of surgical plume (or smoke) has not shown levels to exceed established exposure limits. Therefore, it is unclear that a standard is necessary over and above what is required by a comprehensive injury and illness prevention program. Surgical plume exposures are intermittent and the plume itself is considered an irritant. The generation of surgical plume is dependent on several factors including the surgical procedure, skill and technique of the surgeon, the tissue being operated on, the room characteristics (including ventilation), and the proximity of individuals to the surgical site.

An employer's Injury and Illness Prevention Program (IIPP), prepared in compliance with Title 8 California Code of Regulations Section 3203 (8 CCR 3203), should address surgical plume as a "hazard of the job" (albeit an irritant) if the employer's IIPP hazard evaluation is prepared by someone who is knowledgeable of these work environments.

The CIHC has the following specific comments for the Division's consideration: § 51XX (d)(1)(A) How applicable are all of the requirements of 5143 to a surgical environment?

§ 51XX (d)(1)(B) Is 20 air changes per hour an established criterion for surgical rooms in general? If not, then what's the basis?

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§ 51XX (d)(2) Seems vague. Can they offer any examples of such administrative controls?

§ 51XX (d)(3) Respiratory protective equipment in accordance with 5144 as required or voluntary? Based on the information presented in the NIOSH Health Hazard Evaluations (HHEs), selecting appropriate respiratory protection could be difficult. Unless representative plumes from different procedures can be analyzed to identify one or more toxins with established permissible exposure limits (PELs), then more likely than not, the plume would be categorized as a nuisance dust/odor, and it would be unlikely that the worker exposure would meet or exceed the current PEL for nuisance dust (10 mg/m<sup>3</sup>) or respirable dust (5 mg/m<sup>3</sup>). We recognize that this subsection is following the traditional hierarchy of controls; however, this may not be strictly applicable for this "exposure".

§ 51XX (d)(4) Are devices available that can provide appropriate eye protection for both a surgical environment as well as to protect against an eye irritation exposure?

§ 51XX (e) We understand that the list of elements is a typical list for employee hazard awareness and control training, but without better information on the contaminants in the plume, the associated health effects, and the feasibility of administrative controls, this may be requiring training that sets up an untenable situation for the employer.

The CIHC, founded in 1990, represents the occupational and environmental health profession in California and is affiliated with the national American Industrial Hygiene Association (AIHA), an 8,000-member organization. The CIHC is formally comprised of occupational and environmental health and safety professionals who are members of the five California AIHA local sections represented by the CIHC Board of Directors. The CIHC's mission is to provide sound scientific and technological input to the regulatory and legislative process, and establish a legislative presence in the state Capitol through professional representation.

CIHC appreciates the ability to be involved in the Advisory Committee. Please let us know if there are any questions concerning the above-stated points. On behalf of CIHC, I may be reached by telephone at (530) 622-7196 or email at <u>kwa-sacramento@att.net</u>.

Sincerely,

Pamela Murcell

Pamela Murcell, MS, CIH President, CIHC