This qualitative fit test uses a person's response to the irritating chemicals released in the "smoke" produced by a stannic chloride ventilation smoke tube to detect leakage into the respirator (N95 or KN95 mask).

(a) General Requirements and Precautions

(1) The respirator to be tested shall be equipped with high efficiency particulate air (HEPA) or P100 series filter(s).

(2) Only stannic chloride smoke tubes shall be used for this protocol.

(3) No form of test enclosure or hood for the test subject shall be used.

(4) The smoke can be irritating to the eyes, lungs, and nasal passages. The test conductor shall take precautions to minimize the test subject's exposure to irritant smoke. Sensitivity varies, and certain individuals may respond to a greater degree to irritant smoke. Care shall be taken when performing the sensitivity screening checks that determine whether the test subject can detect irritant smoke to use only the minimum amount of smoke necessary to elicit a response from the test subject.

(5) The fit test shall be performed in an area with adequate ventilation to prevent exposure of the person conducting the fit test or the build-up of irritant smoke in the general atmosphere.

(b) Sensitivity Screening Check – Pre-Fit Test [STEP ONE]

- □ (1) The test operator shall break both ends of a ventilation smoke tube containing stannic chloride, and attach one end of the smoke tube to a low flow air pump set to deliver 200 milliliters per minute, or an aspirator squeeze bulb (3x slow steady pumps / min). The test operator shall cover the other end of the smoke tube with a short piece of tubing to prevent potential injury from the jagged end of the smoke tube.
- (2) The test operator shall advise the test subject that the smoke can be irritating to the eyes, lungs, and nasal passages and instruct the subject to keep his/her eyes closed while the test is performed.
- (3) The test subject shall be allowed to smell a weak concentration of the irritant smoke before the respirator is donned to become familiar with its irritating properties and to determine if he/she can detect the irritating properties of the smoke. The test operator shall carefully direct a small amount of the irritant smoke in the test subject's direction to determine that he/she can detect it.

□ (1) The person being fit tested shall don the respirator without assistance and perform the required user seal check(s).

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(3) The test operator shall direct the stream of irritant smoke from the smoke tube toward the face seal area of the test subject, using the low flow pump or the squeeze bulb (3x slow steady pumps / min). The test operator shall **begin at least 12 inches** from the facepiece and move the smoke stream around the whole perimeter of the mask. The operator shall gradually make two more passes around the perimeter of the mask, **moving to within six inches of the respirator**.

- □ (4) If the person being tested has not had an involuntary response and/or detected the irritant smoke, proceed with the test exercises.
- □ (5) The exercises identified (BELOW) shall be performed by the test subject while the respirator seal is being continually challenged by the smoke, directed around the perimeter of the respirator at a distance of six inches.

Test Exercises.

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(d) Sensitivity Screening Check – Post Fit Test [STEP THREE]

- □ (1) Each test subject passing the irritant smoke test without evidence of a response (involuntary cough, irritation) shall be given a second sensitivity screening check, with the smoke from the same smoke tube used during the fit test, once the respirator has been removed, to determine whether he/she still reacts to the smoke. Failure to evoke a response shall void the fit test.
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 PASS FAIL (Tester to Circle One)
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| NAME of Candidate: | | |
|-----------------------|------|--|
| Make & Model of Mask: | | |
| Date: | | |

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| NAME of Candidate: | | |
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Three steps are required to address DOSH directive 1.70 – this is only one of the three steps required to be in compliance

□ 1 Medical Evaluation

- <u>https://www.3m.com/3M/en_US/safety-centers-of-expertise-us/respiratory-protection/respirator-medical-evaluations/</u>
- Two Free Tests per email sign up

□ 2 Initial Fit Test of Respirator (N95 or KN95 Mask)

• Service Provided by outside agency or owner

□ 3 Respiratory Protection Program

- <u>https://www.wsda.org/member-center/covid-19/dosh-directive-information</u>
- Note: Access requires organized dentistry member log in w/ Credentials