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and Prevention (CDC)
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LETTER TO ALL RESPIRATOR MANUFACTURERS

Subject: NIOSH use of the TSI 8118A non-motorized aerosol generators

In a November 18, 1996, Letter to All Manufacturers, NIOSH stated that the TSI 8118A non-motorized sodium chloride generator would not be utilized for certification testing of particulate filters because results differed somewhat from those produced by the 8118 motorized sodium chloride generator.

TSI then made adjustments to its 8118A non-motorized sodium chloride generator and NIOSH re-evaluated it. The adjusted version provides a sodium chloride test aerosol with a particle size distribution having a count median diameter of $.080 \pm .005$ micrometer and a standard geometric deviation not exceeding 1.70. The TSI 8118 motorized generators, which have been utilized by NIOSH, provide a sodium chloride test aerosol with a particle size distribution having a count median diameter of $.068 \pm .005$ micrometer and a standard geometric deviation not exceeding 1.76. Both generators meet the requirements of 42 CFR 84. As a result, NIOSH is using either the 8118 motorized or the 8118A non-motorized generators for certification testing.

NIOSH will be revising its standard testing procedures in the near future incorporating the use of either generator. Copies will be available upon request.

For questions or further explanation of the policy, please call the NIOSH Respirator Branch at 304-285-5907

Sincerely yours,

Richard W. Metzler
Chief, Respirator Branch
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NIOSH:DRDS:RESPIRATOR BRANCH:RCT:HOFFMAN:BASILE:05/14/1999

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