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PLAINTIFF'S EXHIBIT
UC-3240

W-0143
#1(A)

UNION CARBIDE CORPORATION P. O. BOX 8361, SOUTH CHARLESTON, WV 25303

To (Name) P. L. Graham
Division C. P. Maxwell
Location M. L. Mills
Area L. R. Noble
D. R. Paugh

Copy to R. E. Peele

Date November 13, 1987

Originating D HS&EA

Area Industrial Hygiene

Subject Respiratory Protection for Asbestos

Attached you will find details of a study conducted by duPont to evaluate performance of various types of respirators against asbestos fibers. As you will note, the 3M8710 and 9910 provide sufficient protection against asbestos exposure.

Based on my gut feeling, supported by this study, I continue to recommend 3M respirator for ease of its use and acceptability by the users.

Manhar A. Patel

Manhar A. Patel

NAP:lms

Attachment

UCC 016697

(1)

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MAP, Rep WV-0143 #1(B)

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UNION CARBIDE CORPORATION OLD RIDGEBURY ROAD, DANBURY, CT 06817

To (Name) SEE ATTACHED DISTRIBUTION
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Location
Area

Date November 6, 1984

Originating Dept. HS&EA

Area P2

Copy to

Subject RESPIRATORY PROTECTION FOR ASBESTOS

RECEIVED
NOV 12 1984
R. E. PEELE

The enclosed information concerning respiratory protection for asbestos was developed by Du Pont and recently circulated to members of Organization Resources Counselors (ORC). You may find this information significant for operations involving asbestos removal. During the public hearings on the OSHA asbestos standard this past summer, there was considerable controversy about the effectiveness of disposable respirators in providing protection against asbestos fibers.

In a limited study, Du Pont found that disposable respirators provide protection equivalent to that provided by re-usable, elastomeric facepiece respirators.

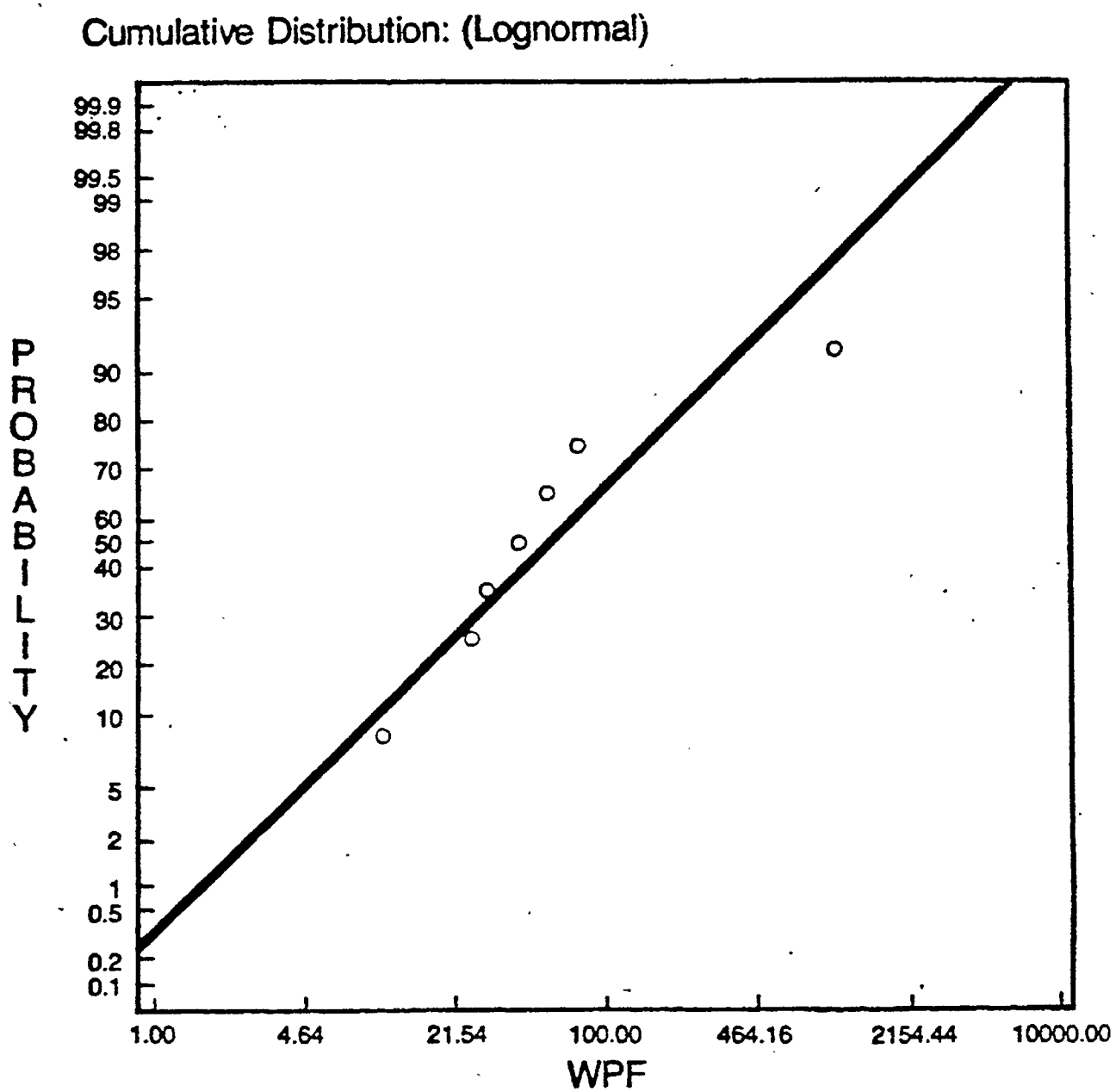
Richard G. Hanlon

RGH:jmc
Enclosure

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Figure 5 – Workplace Protection Factors for AO R1050 Respirator



Geometric Mean: 52

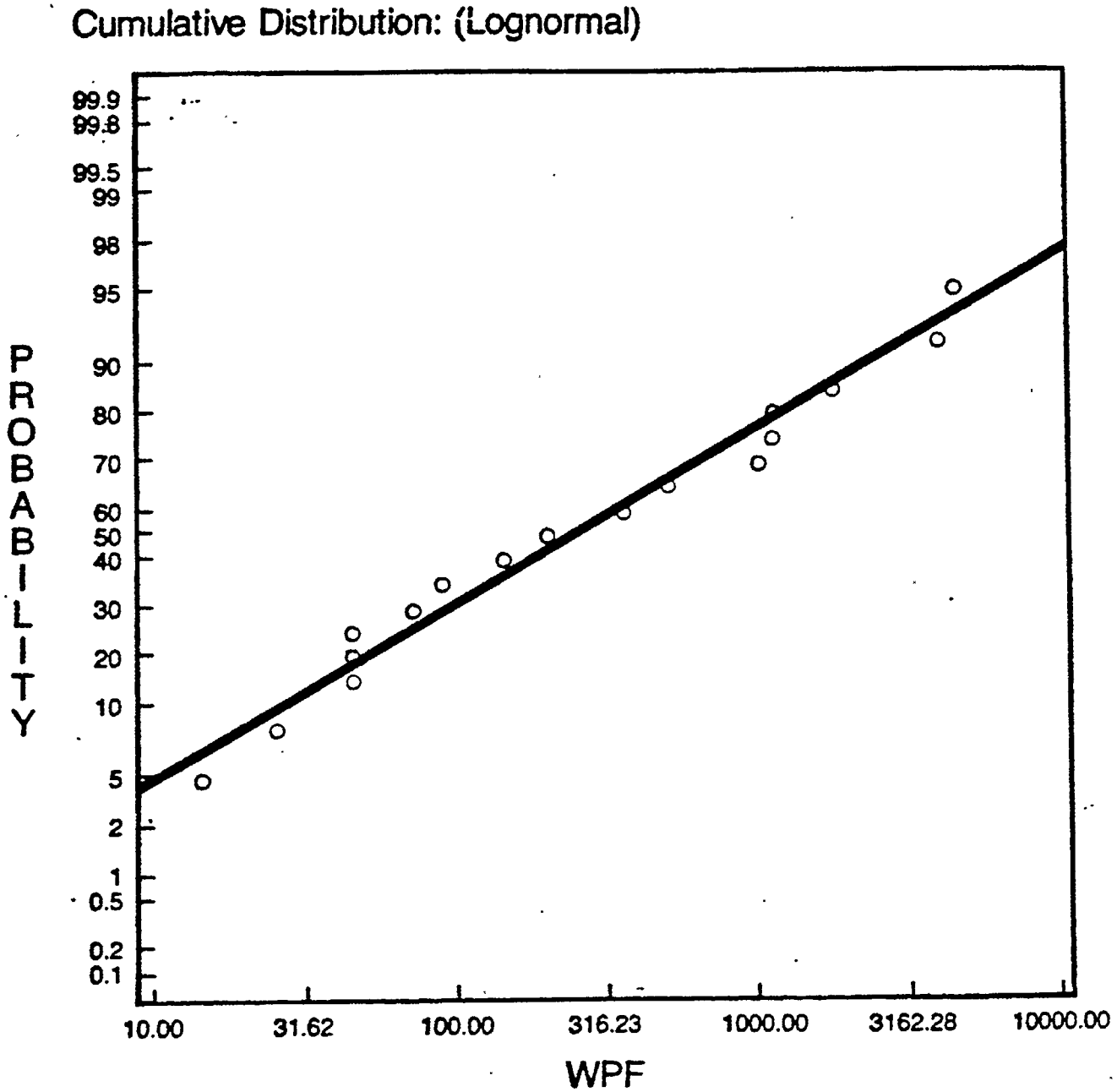
Geometric Standard Deviation: 4.2

Best Estimate of 5th Percentile: 5

Data: 9.7, 26, 28, 38, 52, 75, 970

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Figure 6 – Workplace Protection Factors for Survivair 2000 and MSA Comfo® Halfmask Respirators with Dust, Fume and Mist Filters



Geometric Mean: 240

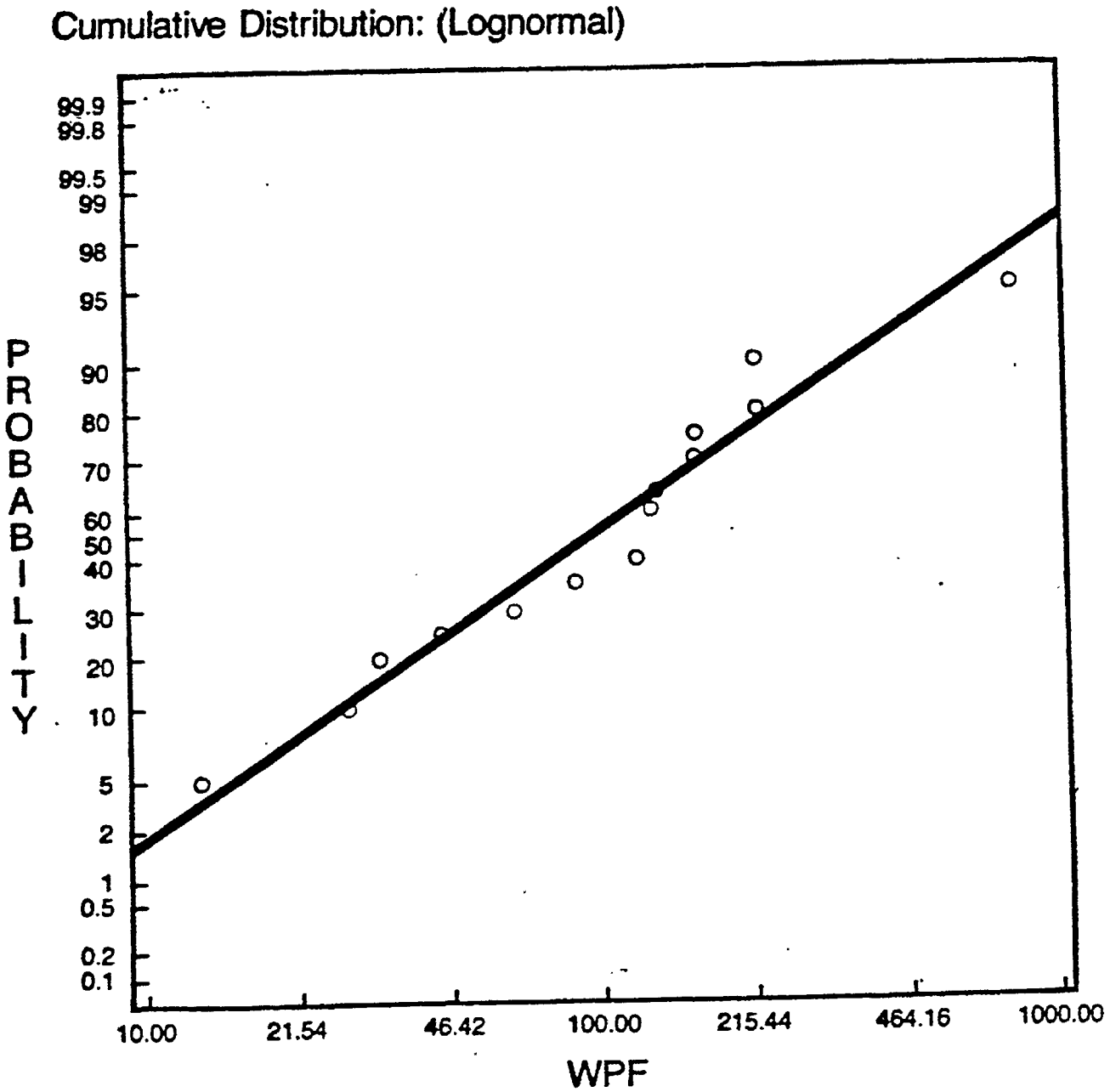
Geometric Standard Deviation: 6.3

Best Estimate of 5th Percentile: 12

Data: 15, 24, 45, 46, 47, 74, 88, 140, 190, 370, 480, 1000, 1100, 1100, 1800, 4100, 4200

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Figure 7 – Workplace Protection Factors for Survivair 2000 and MSA Comfo® Halfmask Respirators with High Efficiency Filters



Geometric Mean: 94

Geometric Standard Deviation: 3.0

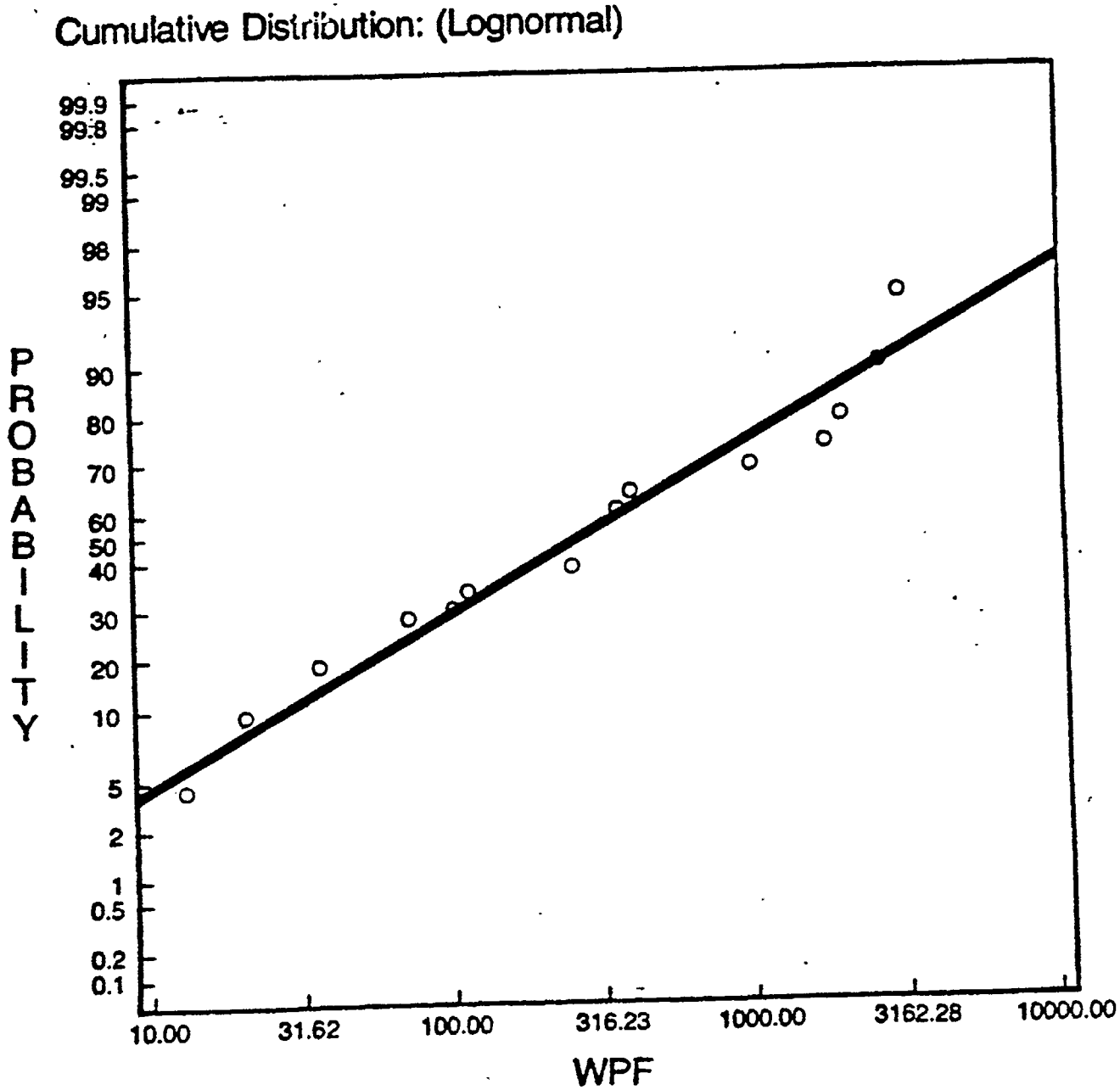
Best Estimate of 5th Percentile: 16

Data: 12, 28, 32, 42, 65, 85, 110, 120, 140, 160, 160, 220, 220, 780, 7900*

*Removed from plot analysis as an outlier

UCC 016701

Figure 8 – Workplace Protection Factors for North 7700 Halfmask Respirators with High Efficiency Filters



Geometric Mean: 250

Geometric Standard Deviation: 6.9

Best Estimate of 5th Percentile: 11

Data: 12, 20, 36, 60, 74, 110, 260, 350, 400, 1000, 1900, 2000, 2400, 3100

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