



DEPARTMENT OF HEALTH & HUMAN SERVICES

Centers for Disease Control
and Prevention (CDC)

NIOSH Reference: TN-22414
Mfr. Reference: GSFN1900b

National Institute for Occupational
Safety and Health (NIOSH)
National Personal Protective
Technology Laboratory (NPPTL)
626 Cochran Mill Road
Pittsburgh, PA 15236-0070
Phone: 412-386-4000
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March 6, 2019

Mr. Brian Weller
President
Global Safety First
Paoli Executive Green 1, Suite 200
41 Leopard Road
Paoli, Pennsylvania 19301

Dear Mr. Weller:

The National Institute for Occupational Safety and Health (NIOSH) has reviewed your request accepted July 6, 2018. This request was for approval of the N1900 series of air-purifying filtering facepiece respirators (part numbers N1901L, N1901X, N1902L and N1902X) for protections against particulates at N95 filter efficiency level. The complete respirator configurations are detailed on assembly matrix, file name *N1900AMc.xls*, revision c, dated: 02/26/19.

The site qualification conducted at your facility in Westminster, Maryland on November 28, 2018, and your responses to the Corrective Action Requests (CARs), specifically CARs 22414-01 through 22414-05 have been accepted and all the nonconformance issues related to the site qualification have been resolved.

This request is granted. Approvals are granted only for documentation written in the English language. It is the manufacturer's responsibility to correctly translate materials desired to be produced in languages other than English. Approval number TC-84A-8133 has been assigned. This respirator is approved for protection against particulates at N95 filter efficiency level.

NIOSH has also reviewed the quality manual file name *N1900QMa.doc* presented and finds that this manual meets or exceeds the minimum technical requirements for quality assurance plans as outlined in Title 42, *Code of Federal Regulations* (CFR), Part 84.41(a) and, on the basis of this review, this quality manual is accepted.

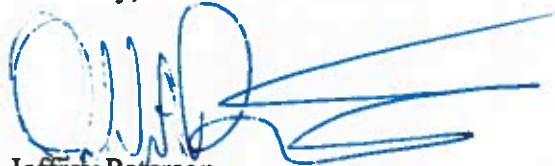
The final respirator approval label is included as an attachment to this letter. The abbreviated label has been accepted as submitted. The cautions and limitations which apply to this approval are on the approval label. Only those assemblies affected by this request, or where new approval numbers are assigned, apply to this approval action. Production approval labels cannot include information on unapproved configurations.

The approved assembly consists of the parts as listed on the approval label and the assembly matrix. Parts are to be marked with the numbers indicated on the approval label in a legible and permanent manner (marking cannot be removed without evidence of its previous presence).

This certificate of approval is not an endorsement of the respirator by NIOSH, and such endorsement shall not be stated or implied in advertisements or other publicity. However, you may publicize the fact that this respirator has met the requirements of Title 42, *Code of Federal Regulations*, Part 84 (42 CFR 84).

No changes may be made to any respirators and accompanying documentation without prior written approval of NIOSH. Requests for changes must be submitted to NIOSH and a modification of this approval must be granted before changes are made.

Sincerely,

A handwritten signature in blue ink, appearing to read 'JPeterson', with several long horizontal strokes extending to the right.

Jeffrey Peterson
Chief, Conformity Verification and
Standards Development Branch

Enclosures

TEST REPORT

Task Number: TN-22414

Manufacturer: Global Safety First

Prepared by: Jeremy Brannen

Date: November 1, 2018

Tests Conducted by: Jeremy Brannen, Nichole Suhon

Respirator Tested: N1901L, N1901X, N1902L, N1902X

Background Information

Respirator tested as per test request.

Tests Assigned

Test Description	STP Number
A. Exhalation Resistance Test	TEB-APR-STP-0003
B. Inhalation Resistance Test	TEB-APR-STP-0007
C. Evaluation of Novel Head Harness	CVB-63C-STP-0015
D. Sodium Chloride (NaCl) N95 Test	TEB-APR-STP-0059

Overall Results

The respirator system tested did meet the requirements of all the above procedures.

**National Institute for Occupational Safety and Health
Respirator Branch
Test Data Sheet**



Task Number: TN-22414

Reference No.: CFR 84.180

Test: Exhalation Resistance Test

STP No.: 3

Manufacturer: Global Safety First

Filter Type: Filter Only

Item Tested: N1901X/N1902X

Sample	Maximum Allowable Resistance (MM of H ₂ O)	Actual Resistance (MM of H ₂ O)	Result
	Exhalation	Exhalation	
1	25	9.4	PASS
2	25	9.7	PASS
3	25	9.9	PASS

Overall Result: PASS

Comments:

Samples 1 was the N1901X and sample 2 and 3 were the N1902X.

Was all equipment verified to be in calibration throughout all testing?



Yes



No

Signature:

Date: 10/23/2018

Engineering Technician

**National Institute for Occupational Safety and Health
Respirator Branch
Test Data Sheet**



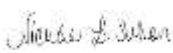
Task Number: TN-22414
Test: Inhalation Resistance Test
Manufacturer: Global Safety First
Item Tested: N1901X/N1902X

Reference No.: CFR 84.180
STP No.: 7

Filter Type: Filter Only

Sample	Maximum Allowable Resistance (MM of H2O)	Actual Resistance (MM of H2O)	Result
	Inhalation	Inhalation	
1	35	10.7	PASS
2	35	11.9	PASS
3	35	11.4	PASS

Overall Result: PASS

Signature: 

Date: 10/23/2018

Engineering Technician

Task Number: TN-22414
Test: Inhalation Resistance Test
Manufacturer: Global Safety First
Item Tested: N1901X/N1902X

Reference No.: CFR 84.180
STP No.: 7

Comments:

Samples 1 was the N1901X and sample 2 and 3 were the N1902X.

Was all equipment verified to be in calibration throughout all testing?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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Signature: 

Date: 10/23/2018

Engineering Technician

Novel Head Harness Testing Report

Task Number: TN 22414

CFR Reference No.: 84.63

Manufacturer: Global Safety First

Item Tested: N1901L, N1901X, N1902L, N1902X

Minimum Fit Factor: 100

Subject	Facesize	Facepiece	Result	
			Trial 1	Trial 2
1820	8	N1902X	PASS	PASS
1828	9	N1901L	PASS	PASS
1825	8	N1902L	PASS	PASS
1811	8	N1901X	PASS	PASS

Overall Result: PASS

Test Operator: Jeremy Brannen

Date: October 25, 2018

Comments:

All test subjects were medically cleared for testing. Subjects did the testing per procedure No. CVB-63C-STP-0015.

Was all equipment verified to be in calibration throughout testing? Yes

Equipment used in Testing

Novel Head Harness Testing Report

Name	GAGEPak #		Calibration Due
TSI Portacount	000229		4/16/2020

National Institute for Occupational Safety and Health
Respirator Branch
Test Data Sheet



Task Number: TN-22414

Reference No.: CFR 84.181

Test: Sodium Chloride (NaCl) - N95

STP No.: 59

Manufacturer: Global Safety First

Item Tested: N1901L/N1902L

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	5.6	5.00	0.259	0.313	PASS
2	85	14.8	5.00	0.393	0.393	PASS
3	85	15.2	5.00	0.262	0.262	PASS
4	85	11.5	5.00	0.217	0.217	PASS
5	85	14.0	5.00	0.342	0.342	PASS
6	85	9.9	5.00	0.339	0.549	PASS
7	85	12.5	5.00	0.322	0.322	PASS
8	85	10.3	5.00	0.159	0.161	PASS
9	85	8.0	5.00	0.120	0.120	PASS
10	85	10.9	5.00	0.194	0.194	PASS
11	85	8.9	5.00	0.322	0.322	PASS
12	85	10.8	5.00	0.389	0.389	PASS
13	85	11.1	5.00	0.348	0.348	PASS
14	85	14.7	5.00	0.284	0.284	PASS
15	85	13.5	5.00	0.341	0.341	PASS
16	85	13.7	5.00	0.299	0.299	PASS
17	85	11.3	5.00	0.255	0.255	PASS
18	85	7.6	5.00	0.091	0.091	PASS
19	85	11.5	5.00	0.224	0.224	PASS
20	85	12.4	5.00	0.282	0.282	PASS

Overall Result: PASS

Signature:

Date: 10/23/2018

Engineering Technician

Task Number: TN-22414

Reference No.: CFR 84.181

Test: Sodium Chloride (NaCl) - N95

STP No.: 59

Manufacturer: Global Safety First

Item Tested: N1901L/N1902L

Comments:

Samples 1-10: part number N1902L, tested on TSI 8130 machine 000333. Samples 11-20: part number N1901L, tested on TSI 8130 machine 000333. Only sample 1 was tested using N1900 housing due to the fixture breaking after the first sample.

Was all equipment verified to be in calibration throughout all testing?

Yes

No

Signature:



Date: 10/23/2018

Engineering Technician