



DEPARTMENT OF HEALTH & HUMAN SERVICES

NIOSH Reference: TN-19825  
Mfr. Reference: GHCL-288

Centers for Disease Control  
and Prevention (CDC)

National Institute for Occupational  
Safety and Health (NIOSH)  
National Personal Protective  
Technology Laboratory (NPPTL)  
P.O. Box 18070  
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Phone: 412-386-4000  
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December 15, 2014

Mr. Wanghua Xu  
Management Representative  
Guangzhou Harley Commodity Company Limited  
Floor 1 to 4, #8, Team 17, Sandong Village  
Xinhua Street, Huadu District  
Guangzhou 510800  
CHINA

Dear Mr. Xu:

The National Institute for Occupational Safety and Health (NIOSH) has reviewed your request accepted September 17, 2014. This request was for approval of the model L-288 filtering facepiece air purifying respirator for protections against particulates at a N95 filter efficiency level, reference assembly matrix L-288 AMa.xls.

This request is granted. Approvals are granted for English language only on all documentation. It is the manufacturer's responsibility to correctly translate materials desired in languages other than English. Approval number TC-84A-7228 has been assigned. This respirator is approved for protection against particulates at a N95 filter efficiency level.

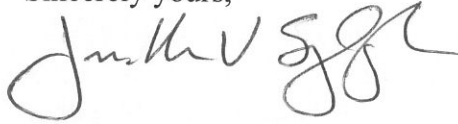
The CD enclosed with this letter contains the final respirator approval label. The abbreviated label has been accepted as submitted. The cautions and limitations which apply to this approval are on the approval label. Only those assemblies affected by this request, or where new approval numbers are assigned, 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 yours,

A handwritten signature in black ink, appearing to read 'Jonathan V. Szalajda', written in a cursive style.

Jonathan V. Szalajda  
Acting Chief, Technology Evaluation Branch  
National Personal Protective Technology Laboratory

Enclosures

## TEST REPORT

**Task Number:** TN-19825

**Manufacturer:** Guangzhou Harley Commodity Company Limited

**Prepared by:** Nichole Petitta

**Tests Conducted by:** Nichole Petitta

**Date:** November 21, 2014

**Respirator Tested:** L-288 N95

### Background Information

Respirator tested as per test request.

### Tests Assigned

<u>Test Description</u>	<u>STP Number</u>
A. Exhalation Resistance Test	RCT-APR-STP-0003
B. Inhalation Resistance Test	TEB-APR-STP-0007
C. Sodium Chloride (NACL) N95 Test	TEB-APR-STP-0059

### Overall Results

The respirator system tested met the requirements of all the procedures listed above.

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



**Task Number:** TN-19825

**Reference No.:** CFR 84.180

**Test:** Exhalation Resistance Test

**STP No.:** 3

**Manufacturer:** Guangzhou Harley Commodity Company Limited

**Filter Type:** Filter Only

**Item Tested:** L-288 N95

Sample	Maximum Allowable Resistance (MM of H <sub>2</sub> O)	Actual Resistance (MM of H <sub>2</sub> O)	Result
	Exhalation	Exhalation	
1	25	10.8	PASS
2	25	10.7	PASS
3	25	10.3	PASS

**Overall Result:** PASS

**Comments:**

Samples were tested on Brooks meter 000283.

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

☒ Yes ☐ No

**Signature:**

*Nichole L. Petetta*

**Date:** 11/4/2014

**Engineering Technician**

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



**Task Number:** TN-19825

**Reference No.:** CFR 84.180

**Test:** Inhalation Resistance Test

**STP No.:** 7

**Manufacturer:** Guangzhou Harley Commodity Company Limited

**Item Tested:** L-288 N95

**Filter Type:** Filter Only

Sample	Maximum Allowable Resistance (MM of H2O)	Actual Resistance (MM of H2O)	Result
	Inhalation	Inhalation	
1	35	11.4	PASS
2	35	11.7	PASS
3	35	10.9	PASS
Overall Result: PASS			

**Signature:**

*Nicholas L. Petitta*

**Date:** 11/4/2014

**Engineering Technician**

**Task Number:** TN-19825

**Reference No.:** CFR 84.180

**Test:** Inhalation Resistance Test

**STP No.:** 7

**Manufacturer:** Guangzhou Harley Commodity Company Limited

**Item Tested:** L-288 N95

**Comments:**

Samples were tested on Brooks meter 000036.

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



Yes



No

**Signature:**

*Nichole L. Petitta*

**Date:** 11/4/2014

**Engineering Technician**

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



**Task Number:** TN-19825

**Reference No.:** CFR 84.181

**Test:** Sodium Chloride (NaCl) - N95

**STP No.:** 59

**Manufacturer:** Guangzhou Harley Commodity Company Limited

**Item Tested:** L-288 N95

Filter	Flow Rate	Initial Filter Resistance	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	12.2	5.00	0.379	0.388	PASS
2	85	12.2	5.00	0.559	0.560	PASS
3	85	11.6	5.00	0.781	0.765	PASS
4	85	12.0	5.00	0.650	0.650	PASS
5	85	11.7	5.00	0.665	0.665	PASS
6	85	12.3	5.00	0.520	0.520	PASS
7	85	10.9	5.00	0.598	0.598	PASS
8	85	12.5	5.00	1.390	1.490	PASS
9	85	11.3	5.00	0.794	0.794	PASS
10	85	13.2	5.00	0.654	0.654	PASS
11	85	13.3	5.00	0.610	0.610	PASS
12	85	11.4	5.00	0.629	0.629	PASS
13	85	12.1	5.00	0.640	0.640	PASS
14	85	12.0	5.00	0.755	0.755	PASS
15	85	11.7	5.00	0.899	0.934	PASS
16	85	12.2	5.00	0.616	0.616	PASS
17	85	12.0	5.00	0.684	0.684	PASS
18	85	12.7	5.00	0.501	0.501	PASS
19	85	11.0	5.00	0.319	0.326	PASS
20	85	11.4	5.00	0.669	0.669	PASS

**Overall Result:** PASS

**Signature:**

*Nichole L. Petitta*

**Date:** 11/21/2014

**Engineering Technician**

**Task Number:** TN-19825

**Reference No.:** CFR 84.181

**Test:** Sodium Chloride (NaCl) - N95

**STP No.:** 59

**Manufacturer:** Guangzhou Harley Commodity Company Limited

**Item Tested:** L-288 N95

**Comments:**

Samples were tested on TSI 8130 machine 000192 with samples 1-3 using timer 000214.

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

☒ Yes ☐ No

**Signature:**

*Nichole L. Petitta*

**Date:** 11/21/2014

**Engineering Technician**