



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Our Reference: TN-05868

Centers for Disease Control  
National Institute for Occupational  
Safety and Health - ALOSH  
944 Chestnut Ridge Road  
Morgantown, WV 26505-2888  
May 1, 1992

Mr. Dennis Smith  
Quality Assurance Manager  
E.D. Bullard Company  
Route 7, Box 596  
White Oak Pike  
Cynthiana, Kentucky 41031

Dear Mr. Smith:

This reply is with reference to your letter of November 13, 1991, requesting approval of the 88 series supplied-air respirator (SAR).

Approval TC-19C-293 is granted to cover the Type C and CE continuous flow class SAR for respiratory protection in any atmosphere not immediately dangerous to life or health and from which the wearer can escape without the aid of the respirator. This approval applies only when the device is supplied with respirable breathing air through lengths of air-line hose and within pressure ranges as listed in your approval label.

The maximum number of sections of air-line hose as listed on your approval label may be used in making up the maximum approved hose length.

In making renewals or repairs, parts identical with those furnished by the manufacturer under the pertinent approval shall be maintained.

The approved assembly consists of the following E.D. Bullard Company parts: Respirator helmet assembly, breathing tube assembly, and air-supply hose with part numbers as listed on your label. These parts are to be marked with the indicated numbers in a legible and permanent manner (marking cannot be removed without evidence of its previous presence).

The enclosed approval label designs are to be used in preparing the approval labels. Label TC-19C-293 shall be prepared for use in the user instruction manual and on the respirator container packaging. Designs of your labels must be submitted to the National Institute for Occupational Safety and Health (NIOSH) for approval before printing, and proofs of the printed labels must be submitted to NIOSH for further approval before its final production.

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Your quality control plans for the 88 series SAR were reviewed by NIOSH. On the basis of that review, your quality control plans are accepted as a part of this approval.

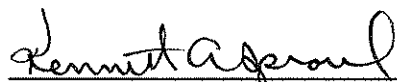
Your drawing lists dated March 23, 1992, apply to this approval.

This Certificate of Approval is not an endorsement of the respirator by the Mine Safety and Health Administration (MSHA) or NIOSH, and such endorsement shall not be stated or implied in advertisements or other publicity. However, you may publicize the fact that the product has met the requirements of 30 CFR Part 11.

Any changes you wish to make to this respirator shall be submitted, and a modification of this approval shall be granted before any changes are made. (Reference: Part 11, section 11.35.)

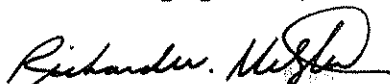
Please submit samples of respirator packaging, bearing all required labels, instructions, and markings, for our approval, before adopting them. These items will be made a part of the record of this approval. We shall retain several other items as additional record material. All other material will be discarded unless we are otherwise advised by you.

Sincerely yours,



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Kenneth A. Sproul, Chief  
Quality Assurance Division  
Approval and Certification Center  
MSHA



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Richard W. Metzler, Chief  
Certification and Quality  
Assurance Branch  
Division of Safety Research  
NIOSH

3 Enclosures

# APPROVAL LABEL

## 88 Series Respirator System

Breathing Tube Assembly (Part No.)	Air Supply Hose (Part No.)	Air Supply Hose Length (Feet)	Required Pressure Range (psig air)	Maximum Number of Hose Sections
E30, E30B, E30S E31, E32, E33, E34	V10	25	14-15	1
		50	15-18	2
		100	19-24	3
		150	23-29	4
		200	25-34	5
		250-300	31-39	5
AC108630, AC108630B, AC108630S, AC108631, AC108632, AC108633, AC108634	V5	25	12-18	1
		50	19-23	2
AC108630, AC108630B, AC108630S, AC108631, AC108632, AC108633, AC108634	V10	25-50	55-65	2
		75-150	60-70	3
		175-300	65-75	5
		25	55-65	1
		50	56-69	1
HC238830, HC238830B, HC238830S, HC238831, HC238832, HC238833, HC238834	V10	25-50	65-70	2
		75-125	70-75	3
		150-225	80-85	4
		250-300	85-95	5
		25	67-81	1
		50	70-86	1
HC248830, HC248830B, HC248830S, HC248831, HC248832, HC248833, HC248834	V10	25	59-61	1
		50	63-65	2
		100	68-70	3
		150	73-75	4
		200	77-79	4
		250	80-82	5
		300	84-86	5
E40, E40B, E40S, E41 E42, E43, E44, E45	V5	25	65-66	1
		50	68-69	1
E40, E40B, E40S, E41 E42, E43, E44, E45	V10	25	22-25	1
		50	24-27	2
		100	27-32	3
		150	30-37	4
		200	33-40	5
		250-300	38-45	5
E35, E35B, E35S	V20	25	22-26	1
		50	25-30	2
FRIGITRON 2088, FRIGITRON 2088B, FRIGITRON 2088S	V20	50	4-6	1
		100	6-8	2
		200	10-15	2
		300	13-18	3
		50	16-22	1
		100	18-25	2
		200	22-30	2
		300	25-34	3

### PERMISSIBLE

## SUPPLIED-AIR RESPIRATOR TYPE C and CE CONTINUOUS-FLOW CLASS

Mine Safety and Health Administration  
National Institute for Occupational Safety and Health

**APPROVAL NO. TC-19C-XX 293**

ISSUED TO: **E.D. Bullard Company**  
Cynthiana, Kentucky, USA

**LIMITATIONS:** Approved for respiratory protection in any atmosphere not immediately dangerous to life or health and from which the wearer can escape without the aid of the respirator. This approval applies only when the respirator is supplied with respirable air through approved hose(s), in allowable length(s), through belt-mounted air-control systems, including accessories, at pressure ranges shown in the table.

**CAUTION:** Do not wear this respirator in any atmosphere immediately dangerous to life or health. Follow manufacturer's instructions for providing a supply of respirable air. In making renewals or repairs, parts used must be identical to those furnished by the manufacturer under the pertinent approval. This respirator shall be selected, fitted, used and maintained in accordance with Mine Safety and Health Administration, Occupational Safety and Health Administration and other applicable regulations.

Bullard 88 Series supplied-air respirators consist of the following three components: respirator helmet assembly, breathing tube assembly and air supply hose. All components must be present and properly assembled to constitute a complete MSHA/NIOSH approved respirator. *05/01/92*  
MSHA/NIOSH Approval No. TC-19C-XX issued to E.D. Bullard Company - XAAV4991. See pages 19 and 20 of the instruction manual for the approved assembly parts.