



Roy T. Gottesman
Executive Director

June 11, 1990

TO: The VI Health, Safety & Environment Committee

RE: VCM Cartridge Filter

Dr. Brian Bennett of ICI Chemicals and Polymers has sent me copies of the slides which he used at last September's Vinyl Chloride Safety Association meeting with reference to the VCM cartridge filter.

He informs me that this is now available through Drager, but that other companies wish to get into this canister market. He anticipates that in the future, the price will drop drastically below the £7 (approximately \$12.00) price per unit.

Further, Brian Bennett informs me that ICI has used this canister at their Hillhouse Site in several other areas with a great deal of success and acceptability by the workforce.

In addition to the slide copy, which is enclosed, should you wish further information on this, please contact Dr. Brian Bennett at the following address:

Dr. Brian Bennett
ICI Chemicals and Polymers Limited
P.O. Box 4, Hillhouse Site
Thornton Cleveleys
Blackpool FY 5 4QD, England
Telephone - (0253) 861444
Telefax - (0253) 861861

Sincerely yours,

Roy

RTG/pmb

cc: Dr. B. Bennett
M. Scheck

CTL019038

V.C.M.

MUTAGEN

MULTI-ORGAN ANIMAL CARCINOGEN

PROVEN HUMAN CARCINOGEN

CTL019039

THE ULTIMATE REQUIREMENT IS TO HAVE A SAFE SYSTEM OF WORK
COUPLED WITH THE NECESSARY ENGINEERING CONTROLS TO PREVENT
ANY TOXIC GAS/FUME/DUST EXPOSURE TO ANY PERSON,
TOGETHER WITH REGULAR AREA AND PERSONAL MONITORING AND
AUDITING OF SYSTEMS.

CTL019040

N O R M A L W O R K I N G P R A C T I C E S

- * P E R S O N A L A N D A R E A M O N I T O R I N G I N P R O G R E S S

- * S C A B A T O B E A V A I L A B L E

- * P R O C E D U R E S I N F O R C E I N C A S E O F P L A N T O R S I T E E M E R G E N C I E S

CTL019041



CURRENTLY MEN ARE NOT WEARING SELF-CONTAINED OR AIR

LINE BREATHING APPARATUS TO DO A 2-MINUTE JOB -

e.g. RAIL OR SHIP OFF-LOADING

LEAK DETECTOR MAN

CERTAIN FITTER DUTIES

Often unreasonable and impracticable to wear Air-line Breathing Apparatus due to Trailing Leads - e.g., connection or disconnection of VCM Rail/Road Tankers.

A Self-Contained Breathing Apparatus weighs at least 40 lbs. and a Leak Detector Man is often unable to wear it due to situations in which he has to work, and also because of the weight, if required to wear the equipment for long periods.

V C M C A R T R I D G E F I L T E R

AIM : TO PROVIDE A FULL FACE MASK, HSE-APPROVED, DISPOSABLE

CARTRIDGE RESPIRATOR - LIGHTWEIGHT, EASY TO USE FOR

SHORT DURATIONS IN KNOWN LOW CONCENTRATION AREAS OF

WORK.

ALSO TO CONFORM TO THE BASIC REQUIREMENTS AND BE

ACCEPTABLE TO THE WEARER

JOB OPERATIONS FOR EXAMPLE :

CONNECTION/DISCONNECTION OF VCM ROAD/RAIL TANKERS

(Cartridge Filter Respirator will not replace any self-contained
or Air-line Breathing Apparatus).

CTL019044

A GAS FILTER RESPIRATOR - EITHER CARTRIDGE OR CANISTER -
MUST NOT BE USED IN :

- STILLS
- TANKS
- CONFINED SPACES
- ANY CIRCUMSTANCES WHERE A HIGH CONCENTRATION
OF GAS IS LIKELY TO BE PRESENT
- ATMOSPHERE DEFICIENT IN OXYGEN

CTL019045

NOT RECOMMENDING THAT ANY INDIVIDUAL USES A CARTRIDGE
FILTER RESPIRATOR INSTEAD OF SELF-CONTAINED OR AIR LINE
BREATHING APPARATUS.

RECOMMEND THAT THE CARTRIDGE FILTER RESPIRATOR IS USED
WHERE POTENTIAL EXPOSURE, RATHER THAN PREDICTED EXPOSURE
MAY OCCUR.

(Based on monitoring results showing very few above the
O.E.L. / T.L.V.)

V C M C A R T R I D G E F I L T E R

- * WEARER ACCEPTABILITY
- * CONTROLLED USE BY A DESIGNATED OPERATOR ON A DESIGNATED
JOB OPERATION
- * TO INCLUDE PERSONAL AND AREA MONITORING FOR VCM
- * DISPOSAL OF CARTRIDGE AFTER A SINGLE SHIFT USE
- * USED CARTRIDGE FOR DISORPTION TEST
- * USED CARTRIDGE FOR POSSIBLE RE-GENERATION EVALUATION

CTL019047

VCM CARTRIDGE FILTER

BASIC CONFORMANCE TO
BS 2091

1% V/V 30 MINS DURATION

ESCAPE USE COVERS
HCL EDC C12

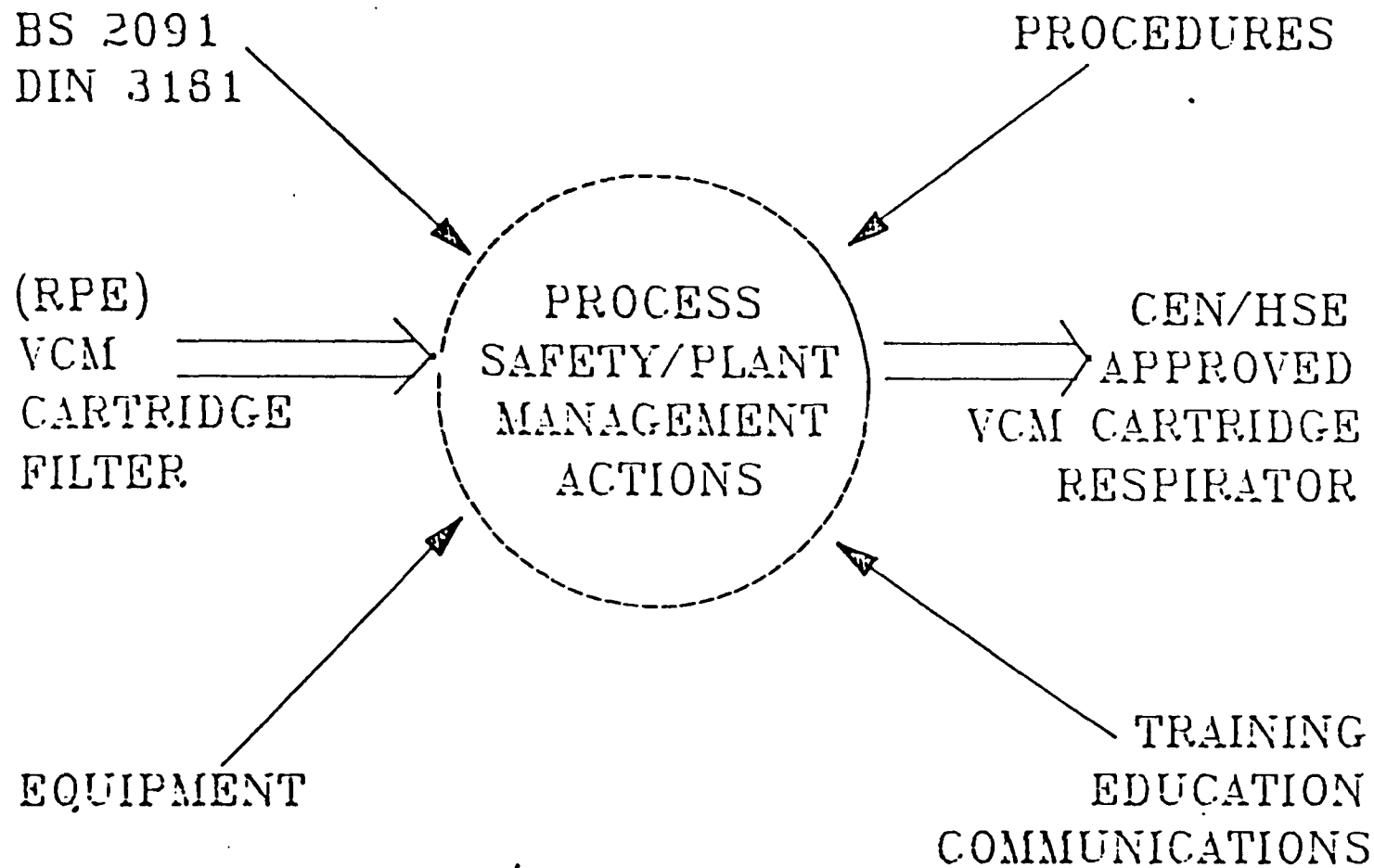
(Use Cartridge Filter Respirator for Escape Usage, and it must be full face).

ONLY RESPIRATOR WORKING TO A BRITISH OR EUROPEAN STANDARD

THE U.S.A. AND EUROPE FILTER RESPIRATORS DO NOT CONFORM TO SET
APPROVED STANDARD

CTL019049

VCM CARTRIDGE PROJECT



CTL019050

"THE VCM GAS FILTER" is now ready for full industrial use, with the appropriate safe systems in operation, as follows:-

- 1) Correctly labelled canister "Vinyl Chloride use only".
- 2) Training procedures for the wearer.
- 3) Control of Issue and monitoring.
- 4) Designated job operation use only.
- 5) Continue random disorption tests.
- 6) Correct maintenance and servicing procedures in operation.
- 7) Correct disposal of contaminated filters.
- 8) Adequate storage.
- 9) Documented Records to be kept of all issues and servicing.
- 10) Clear emphasis that this respirator does not replace existing use of breathing apparatus.

CTL019051

A GAS FILTER RESPIRATOR - EITHER CARTRIDGE OR CANISTER -
MUST NOT BE USED IN :

- STILLS
- TANKS
- CONFINED SPACES
- ANY CIRCUMSTANCES WHERE A HIGH CONCENTRATION
OF GAS IS LIKELY TO BE PRESENT
- ATMOSPHERE DEFICIENT IN OXYGEN

CTL019052