



INTEROFFICE
MEMORANDUM

Date April 5, 1974

Subject Vinyl Chloride Health Screening

To R. Fleming

Executive

(Location, Organization, or Department)

From H. W. Smith

Safety - Trexlertown, Penna.

(Location, Organization, or Department)

cc: E. Blades M. Smith
 T. Carey M. Spurlock
 J. Novak H. Watson

Attached is the National Institute of Occupational Health statement of medical screening to detect liver disease and/or hepatic tumor which may occur after exposure to vinyl chlorides.

Even though this statement is a recommendation from NIOSH to OSHA, it should become our minimum general medical policy for our employees as well as those employees engaged under contractual agreements.

This program should be put into effect in vinyl chloride activities until such time as additional information is available and/or until modifications are indicated by qualified medical authority.

The Corporate Safety Department is currently preparing a similar document for TDA exposure.

Any changes must be approved by the Corporate Safety Department.

Should you concur with this program for vinyl chloride, all attending physicians for the chemical's group should be notified.

H. W. Smith

bis
enclosure

(320)

AP00013964

MEDICAL SURVEILLANCE - VINYL CHLORIDES

THE FOLLOWING MEDICAL SURVEILLANCE PROGRAM RECOMMENDED BY THE NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH WAS ISSUED ON MARCH 22, 1974. THIS DOCUMENT WILL APPLY TO ALL PERSONS INVOLVED IN VINYL CHLORIDE MONOMER PRODUCTION AND POLYMERIZATION INCLUDING THOSE CLERKS AND MANAGEMENT PERSONNEL INVOLVED INDIRECTLY WITH THESE OPERATIONS. THIS WILL NATURALLY INCLUDE THOSE PERSONS ENGAGED IN RESEARCH AND DEVELOPMENT WORK.

THE MEDICAL SURVEILLANCE PROGRAM IS RECOMMENDED TO BE APPLIED BOTH AS A PRE-EMPLOYMENT REQUIREMENT AND AS PART OF PERIODIC HEALTH FOLLOW UPS.

1. AT TIME OF INITIAL EMPLOYMENT OR UPON INSTITUTION OF SCREENING, A PHYSICAL EXAMINATION SHALL BE PERFORMED WITH SPECIFIC ATTENTION TO DETECTING ENLARGEMENT OF LIVER OR SPLEEN BY ABDOMINAL PALPATION.
2. AT TIME OF INITIAL EMPLOYMENT OR UPON INSTITUTION OF SCREENING AND ANNUALLY THEREAFTER, A MEDICAL HISTORY CHECK-LIST SHALL BE COMPLETED BY THE EMPLOYEE. THIS LIST SHALL INCLUDE QUESTIONS CONCERNING:
 - A. ALCOHOL INTAKE
 - B. PAST HISTORY OF HEPATITIS
 - C. PAST EXPOSURE TO HEPATOTOXIC AGENTS, INCLUDING DRUGS AND CHEMICALS
 - D. PAST HISTORY OF BLOOD TRANSFUSIONS
 - E. PAST HISTORY OF HOSPITALIZATIONS

COMPLETED MEDICAL CHECK-LISTS SHALL BE REVIEWED BY A PHYSICIAN AND SHOULD BE ACTED UPON AS MEDICALLY INDICATED FOR EACH EMPLOYEE.

3. AT TIME OF INITIAL EMPLOYMENT OR UPON INSTITUTION OF SCREENING, A SERUM SPECIMEN SHALL BE OBTAINED FOR SCREENING WITH RESPECT TO THE FOLLOWING FIVE (5) BIO-CHEMICAL DETERMINATIONS OF LIVER FUNCTION:

- A. TOTAL BILIRUBIN
- B. ALKALINE PHOSPHATASE
- C. SERUM GLUTAMIC OXALACETIC TRANSAMINASE (SGOT)
- D. SERUM GLUTAMIC PYRUVIC TRANSAMINASE (SGPT)
- E. GAMMA GLUTAMYL TRANSPEPTIDASE (GGTP)

ADDITIONAL TESTS THAT MAY OPTIONALLY BE CONSIDERED FOR USE IN SCREENING INCLUDE LACTIC DEHYDROGENASE (LDH), SERUM PROTEIN DETERMINATIONS, SERUM PROTEIN ELECTROPHORESIS, AND PLATELET COUNT. LABORATORY ANALYSES SHALL BE PERFORMED IN LABORATORIES ACCREDITED BY THE COLLEGE OF AMERICAN PATHOLOGISTS OR LICENSED IN ACCORDANCE WITH THE PROVISIONS OF THE CLINICAL LABORATORIES IMPROVEMENT ACT OF 1967.

4. IF RESULTS OF LABORATORY SCREENING ARE NORMAL, SCREENING SHALL BE REPEATED ON AN ANNUAL BASIS. IF THE PERSON BEING SCREENED HAS BEEN EMPLOYED DIRECTLY IN VINYL CHLORIDE MONOMER PRODUCTION OR POLYMERIZATION FOR TEN (10) YEARS OR LONGER, SCREENING SHALL BE REPEATED EVERY SIX (6) MONTHS.
5. IF ONE OR MORE LIVER FUNCTION TESTS ARE ABNORMAL, SERUM TESTING SHALL BE REPEATED AS SOON AS POSSIBLE, PREFERABLY WITHIN TWO (2) TO FOUR (4) WEEKS. IF NO ABNORMALITIES ARE PRESENT UPON RESCREENING, TESTING SHOULD BE REPEATED IN THREE (3) MONTHS.

6. IF ABNORMALITIES PERSIST ON RESCREENING, THE EMPLOYEE SHALL BE REMOVED FROM CONTACT WITH VINYL CHLORIDE MONOMER OPERATIONS AND AN INDIVIDUALIZED MEDICAL WORKUP SHALL BE INSTITUTED. SUGGESTED AS INITIAL STEPS IN MEDICAL WORKUP ARE A COMPLETE PHYSICAL EXAMINATION AND VARIOUS SPECIAL PROCEDURES SUCH AS HEPATITIS "B" ANTIGEN DETERMINATION AND LIVER SCREENING.

IF LIVER FUNCTION ABNORMALITIES ARE DETERMINED TO BE UNRELATED TO LIVER DISEASE (E.G., ELEVATED ALKALINE PHOSPHATASES IN A YOUNG, PHYSICALLY ACTIVE MAN OR ELEVATED BILIRUBIN IN GILBERT'S SYNDROME) OR TO BE TRANSIENT (E.G., DUE TO RECENT HEPATITIS OR RECENT ALCOHOL INTAKE), THE EMPLOYEE MAY BE PERMITTED TO RETURN TO VINYL CHLORIDE RELATED EMPLOYMENT, SUBJECT TO INDIVIDUAL MEDICAL EVALUATION.

7. IN VIEW OF THE PRELIMINARY RESULTS OF ANIMAL TOXICOLOGY STUDIES, IT IS RECOMMENDED THAT NO WOMAN WHO IS PREGNANT OR EXPECTS TO BECOME PREGNANT SHOULD BE EMPLOYED IN VINYL CHLORIDE MONOMER OPERATIONS.

NOTE 1 - AS VINYL CHLORIDE IS STILL UNDER INVESTIGATION BY NIOSH, IT IS ANTICIPATED THAT THERE MAY BE CHANGES IN THE MEDICAL SURVEILLANCE PROGRAM. THIS DOCUMENT WILL BE UP GRADED AS THE NEED ARISES.

NOTE 2 - THIS DOCUMENT STATES THE MINIMUM REQUIREMENTS. SHOULD ANY ATTENDING MEDICAL AUTHORITY DEEM THAT ADDITIONAL WORK MAY BE NECESSARY, THESE RECOMMENDATIONS WILL FORM THE BASE LINE EVALUATION.

NOTE 3 - AS THESE RECOMMENDATIONS COULD APPLY TO ANY KNOWN OR SUSPECTED LIVER DISEASE OR HEPATIC TUMOR PRODUCING AGENT, THEY SHOULD NOT BE RESTRICTED TO VINYL CHLORIDES.

NOTE 4 - ALL CHANGES TO THE RECOMMENDATIONS CONTAINED IN THIS DOCUMENT SHALL BE CLEARED THROUGH THE CORPORATE SAFETY DEPARTMENT.

H. W. SMITH
April 1974

Title 29—Labor

CHAPTER XVII—OCCUPATIONAL SAFETY
AND HEALTH ADMINISTRATION, DE-
PARTMENT OF LABORPART 1910—OCCUPATIONAL SAFETY
AND HEALTH STANDARDSEmergency Temporary Standard for
Exposure to Vinyl Chloride

1. *Background.* Vinyl chloride (chloroethene). Chemical Abstracts Service Registry No. 75015, is a synthetic chemical made by oxychlorination of ethylene or by hydrochlorination of acetylene. It is the parent compound of a series of thermoplastic resin polymers and copolymers which are widely used for containers, wrapping tissues, electrical insulation, pipe, conduit and a variety of other products. Vinyl chloride has been made commercially in this country since 1939 and present production is in excess of seven billion pounds per year.

Vinyl chloride (VC) is a gas at ambient temperature and pressure and is a chlorinated hydrocarbon which has moderate liver toxicity. The present standard sets a ceiling value of 500 parts per million (ppm) (29 CFR 1910.93).

On January 23, 1974, the Occupational Safety and Health Administration was informed by the National Institute for Occupational Safety and Health (NIOSH) that the B. F. Goodrich Chemical Company reported that deaths of several of its employees from a rare form of liver cancer may have been occupationally related. As a result of this notification, and after consultation with NIOSH and a joint inspection of the plant by OSHA, NIOSH, and the Kentucky Department of Labor, a fact-finding hearing on possible hazards involved with the manufacture and use of both VC and polyvinyl chloride was announced on January 30, 1974 (39 FR 3874), and held on February 15, 1974.

2. *Carcinogenicity of VC.* Information produced at the hearing demonstrated that exposure of laboratory animals (mostly Sprague-Dawley rats) to VC by inhalation at and below the current OSHA standard of 500 ppm induced tumors, including angiosarcomas of the liver. Professor Cesare Maltoni, of the Istituto di Oncologia, Bologna, Italy, reported on a series of experiments on the effect of exposure of rats, mice, and hamsters to VC at concentrations of 10,000; 6,000; 2,500; 800; 250; and 50 ppm for varying periods of time (TR 43-43). Some of the experiments have been concluded, and others are still ongoing. The experimental results so far reported are that tumors have been observed in groups of animals exposed to VC at concentrations as low as 250 ppm. No tumors have been observed in the group of animals exposed to VC at a concentration of 50 ppm. It also appears so far that the total number of tumors, as well as the numbers of angiosarcomas of the liver, decrease as the concentrations of VC are reduced to 250 ppm. Finally, another experiment by Professor Maltoni is underway involving the exposure of 300 animals to VC at concentrations of

50 ppm, in order to assess in a more definitive way whether that level of exposure produces tumors in animals. Data reported by Torkelson, Oyen and Rowe (American Industrial Hygiene Association J 22:354-361 (1961)) indicate that exposure to VC at concentrations of 50 ppm failed to induce tumors in rats, hamsters, rabbits, and dogs.

The employees of the B. F. Goodrich Chemical Company who died from angiosarcoma of the liver had an average exposure of approximately 19 years to vinyl chloride, at unknown concentrations, and variable exposures to other volatile chemicals. (TR 93). Some employees of Union Carbide Company and Goodyear Company are also reported in a post-hearing comment from NIOSH dated March 11, 1974, to have had exposure to vinyl chloride and to have died from angiosarcoma of the liver. Finally, autopsies of four deceased employees revealed that liver angiosarcoma tumors were histologically indistinguishable from the angiosarcoma tumors observed in Professor Maltoni's experimental animals. It is concluded therefore, that vinyl chloride is carcinogenic for humans.

We therefore conclude that the present standard for VC should be lowered from a ceiling of 500 ppm to a ceiling of 50 ppm for the following reasons:

(a) In light of the evidence referred to above including the Maltoni experiments demonstrating that VC is carcinogenic in animals at 250 ppm, we conclude that VC must be considered carcinogenic in man at the same level;

(b) Although Professor Maltoni did not induce tumors in his experimental animals at an exposure concentration of 50 ppm, these data do not support the concept that occupational exposure of employees to concentrations of 50 ppm throughout their working lifetime would be without detrimental health effects;

(c) The question whether safe levels of exposure to carcinogens exist for humans and, if so, what such levels would be, is the subject of continuing scientific deliberation. In the case of VC, Professor Maltoni did not observe tumors in his animals at exposure concentrations of 50 ppm. In addition, Torkelson, Oyen, and Rowe found that exposure to concentrations of 50 ppm of VC failed to induce tumors in rats, hamsters, rabbits, and dogs. Accordingly, there is insufficient evidence at this time to conclude that VC at concentrations of 50 ppm or below poses a grave danger to humans.

(d) The emergency temporary standard adopted represents a substantial reduction in the permissible level of exposure and, in our practical judgment, is the lowest level that can be complied with immediately; and

(e) This standard will be in effect for a period of no longer than six months, during which time the whole question of possible safe exposure of humans to VC will be reconsidered more fully and in the light of more information, including experiments which are under way at this time (TR 47, 49, 71-74).

3. *Petitions for an emergency tempo-*

rary standard. In a telegram to the Assistant Secretary of Labor, received on or about March 14, 1974, the President of the United Rubber Workers International Union urged the establishment of an emergency temporary standard for VC. During the hearing of February 15, 1974, the Industrial Union Department, AFL-CIO, and the United Rubber Workers International Union made a joint petition for an emergency temporary standard for VC (TR 141-142), which was also joined by the Oil, Chemical and Atomic Workers International Union (TR 37). At the same hearing, several participants urged, on the other hand, a regular rulemaking proceeding as the most suitable for the orderly development of relevant information (TR 122, 180).

The petitions for an emergency temporary standard specified in detail the contents of the standard requested. In substance, the request is to issue a comprehensive fully-developed standard based on the recommendations of the Standards Advisory Committee on Carcinogens submitted to the Assistant Secretary of Labor on or about August 27, 1973. The recommendations are far-ranging, and cover special categories of operations, signs and labels, medical surveillance, reporting, etc., including a permit system for the use of a carcinogen.

We agree that an emergency temporary standard is necessary; we cannot say on the basis of the information developed so far that a comprehensive standard, such as the one requested, is either necessary or even desirable. It has been decided to promulgate a standard containing only those essential provisions which are deemed necessary to provide protection to employees from grave danger until a regular rulemaking proceeding in accordance with sections 6 (b) and (c) of the Act can be concluded. The reasons for a decision to establish a ceiling value of 50 ppm have already been stated. A decision on other possible, appropriate provisions is best made after consideration of all relevant data and views that interested persons may submit during the proceeding soon to be initiated.

With respect to arguments in opposition to issuance of an emergency temporary standard, the concern and efforts of several companies participating at the hearing for the protection of their employees are recognized. It may also be that some employers in some plants have fully complied with the interim controls recommended by NIOSH on January 30, 1974. There is, however, reason to believe that employees are currently being exposed to VC at concentrations well above 50 ppm. This was asserted several times at the hearing, and not seriously questioned. Moreover, a report, dated March 1974, of a survey by the staff of the Office of Standards Development, OSHA, of several facilities manufacturing VC and polyvinyl chloride revealed concentrations for some job classifications as high as 229 ppm. Therefore, a regulation is considered necessary to provide, immediately, adequate protection to workers ex-

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GEORGE K. BENNETT,
Federal Insurance Administrator

Issued: March 27, 1974.

(National Flood Insurance Act of 1968 (Title XIII of the Housing and Urban Development Act of 1968), effective Jan. 28, 1969 (23 FR 17804, Nov. 28, 1958), as amended (secs. 408-410, Pub. L. 91-151, Dec. 24, 1968) (43 U.S.C. 4001-4137); and Secretary's delegation of authority)

State	County	Location	Map No.	State map repository	Local map repository	Effective date of sale of flood insurance for area
Colorado	Huerfano	Unincorporated area				Apr. 4, 1974
Connecticut	Hartford	Unincorporated area				
Idaho	Kootenai	Unincorporated area				
Illinois	Carroll	Unincorporated area				
Indiana	Madison	Unincorporated area				
New Jersey	Bergen	Unincorporated area				
North Dakota	McIntosh	Unincorporated area				
Pennsylvania	York	Unincorporated area				
Tennessee	Sevier	Unincorporated area				
Virginia	Stafford	Unincorporated area				
Washington	Spokane	Unincorporated area				
Wisconsin	Winnebago	Unincorporated area				
Wyoming	Lincoln	Unincorporated area				

§ 1914.4 Status of participating communities.

Section 1914.4 of Part 1914 of Subchapter B of Chapter I of Title 26 of the Code of Federal Regulations is amended by adding in alphabetical sequence a new entry to the table. In this entry, a complete chronology of effective dates appears for each listed community. Each date appearing in the last column of the table is followed by a designation which indicates whether the date signifies the effective date of the authorization of the sale of flood insurance in the area under the emergency or the regular flood insurance program. The entry reads as follows:

PART 1914—AREAS ELIGIBLE FOR THE SALE OF INSURANCE
[Docket No. 71-258]

RULES AND REGULATIONS

posed to VC. Also, the eight-hour, time-weighted average standard suggested by several participants at the hearing (see, for instance, TR 178), has been rejected. The March 1974 report of the survey revealed that several kinds of work or operations are of short duration. Loading or unloading of a tank car may require approximately 15 minutes. The cleaning of a reactor may require approximately half an hour. An eight-hour, time-weighted average standard would permit exposure to VC at concentrations of 400 ppm for one hour. Such upward excursions, several times the 50 ppm level, cannot be permitted to occur.

4. *The standard.* The standard set out below contains only the requirements deemed necessary to provide protection before the conclusion of the rulemaking proceeding to be commenced shortly.

Because exposure to VC is hazardous, and because such exposure can occur in the processes of synthesizing or polymerizing of VC or in the handling of VC polymers or copolymers which contain absorbed VC, this standard applies to all such processes and to the handling, reacting, manufacturing, processing, releasing, repackaging, or storage of any of these materials. The monitoring requirements serve two purposes, to trigger into operation a compliance program and to check the effectiveness of the program. Also, engineering controls are favored for compliance, and respirators are intended to provide protection until such controls can be installed or in cases where such controls are not feasible.

Accordingly, by reason of the foregoing and on the basis of the record of the hearing of February 15, 1974, with exhibits, the written submissions received before the hearing pursuant to the notice of the hearing, the post-hearing written submissions by the participants at the hearing, the March 1974 report of a fact-finding survey recommendations received from NIOSH, and the other data referred to herein, it is found (1) that VC at concentrations in excess of 50 ppm is physically harmful and carcinogenic; (2) that exposure to VC at concentrations in excess of a concentration of 50 ppm poses a grave danger to employees; (3) that employees are presently exposed to VC at concentrations in excess of 50 ppm; and (4) that the emergency temporary standard set out below is necessary to provide immediate protection to employees from such danger.

Pursuant to section 6(c) of the Occupational Safety and Health Act of 1970, a proceeding will commence shortly in accordance with section 6(b) of the Act, in which the emergency temporary standard will serve as a proposed rule, together with other subsidiary rules. As soon as possible a draft environmental impact statement will be filed with the President's Council on Environmental Quality, and copies will be provided to other appropriate Federal agencies for their comments.

Pursuant to sections 6(c) and 8(c) (3) of the Williams-Steiger Occupational Safety and Health Act of 1970 (84 Stat. 1596, 1599; (29 U.S.C. 655, 657)), and

Secretary of Labor's Order No. 12-71 (28 FR 8754), 29 CFR Part 1910 is amended by adding thereto a new § 1910.93q to read as set forth below. In addition, pursuant to section 4(b) (2) of the Act (84 Stat. 1592; (29 U.S.C. 653)), the standard in the new § 1910.93q is determined to be more effective than the corresponding standards now in Subpart E of Part 1910, in Parts 1915, 1916, 1917, 1918, and 1926 of title 29, Code of Federal Regulations, and in Part 50-204 of Title 41 of the Code of Federal Regulations. Therefore, these corresponding standards are superseded by the new standard in § 1910.93q.

1. In 29 CFR Part 1910, § 1910.93 is amended by deleting from Table C-1 the line: " * * * C Vinyl chloride * * * 500 * * * 1500".

2. Part 1910 of Title 29 of the Code of Federal Regulations is amended by adding thereto a new § 1910.93q to read as follows:

§ 1910.93q Vinyl chloride.

(a) *Scope and application.* (1) This section applies to any area or operation in which vinyl chloride (chloroethene), Chemical Abstracts Service Registry Number 75016, is manufactured, reacted, handled, processed, released, repacked, or stored.

(2) This section does not apply to the handling, storage, or other use of vinyl chloride polymers and copolymers in the form of fabricated products.

(b) *Permissible exposure.* The occupational environment shall be controlled so that no employee is exposed to vinyl chloride at a concentration in excess of 50 parts per million (ppm) (127.0 mg/cum).

(c) *Monitoring.* (1) *Initial monitoring.* As soon as possible but not later than April 22, 1974, every employer of an employee working in an area or operation in which vinyl chloride is manufactured, reacted, handled, processed, released, repacked, or stored shall begin monitoring the ambient air of the area to determine whether it contains vinyl chloride in concentrations in excess of 50 ppm.

(2) *Frequency.* Monitoring of a sufficient number of employees so that a representative sample of exposures to vinyl chloride may be determined shall be accomplished not less frequently than weekly until all results for three consecutive weeks are at or below 50 ppm. Thereafter, monitoring shall be conducted not less frequently than monthly so long as the concentrations of vinyl chloride do not exceed 50 ppm. If a monitoring sample reveals vinyl chloride in concentrations in excess of 50 ppm, weekly monitoring shall be resumed until all results for three consecutive weeks are at or below 50 ppm.

(3) *Method of monitoring.* Personnel monitoring shall be accomplished by collecting samples by suitable devices worn by the employee. The samples shall be analyzed by gas chromatography or by any other method which is of equivalent sensitivity. The analytical procedure shall be sensitive to 5 ppm of vinyl chloride in air with an accuracy of ± 20 percent for a ten minute air sample.

(4) *Employee observation of monitoring.* Employees working in an area or operation whose ambient air is monitored, or their representatives, shall be given a reasonable opportunity to observe the personnel monitoring required by this section.

(5) *Recordkeeping.* The results of all monitoring shall be recorded in writing. The records shall be retained for at least 5 years and shall be made available for inspection and copying by representatives of the Assistant Secretary of Labor for Occupational Safety and Health and the Director of the National Institute for Occupational Safety and Health (NIOSH).

(6) *Employee access.* Each employee and former employee shall have access to such records of the results of monitoring required by this section as will indicate his own exposure to airborne concentrations of vinyl chloride.

(7) *Employee notification.* Each employer shall promptly notify any employee who has been or is being exposed to vinyl chloride in concentrations in excess of 50 ppm, and shall inform him of the corrective action being taken.

(d) *Compliance.* (1) Whenever any monitoring sample reveals vinyl chloride at a concentration in excess of 50 ppm, or whenever any accident, such as rupture of equipment or spillage, indicates the likelihood of a greater than usual release of vinyl chloride into the ambient air, all employees exposed to such concentrations shall be withdrawn to a safe area and shall not be permitted to re-enter the work area unless they wear either Type C continuous flow or pressure demand air supplied respirators or self-contained breathing apparatus.

(2) Work which may reasonably be expected to release vinyl chloride in concentrations in excess of 50 ppm, such as repair, maintenance or cleaning of reactors or other equipment containing vinyl chloride, shall be accomplished only by employees wearing Type C continuous flow or pressure demand air supplied respirators or self-contained breathing apparatus.

(3) In any case covered by paragraphs (d)(1) or (d)(2) of this section, in addition to providing the required respirators, the employer shall examine and analyze the source of the excessive concentrations of vinyl chloride in order to determine feasible engineering or operational controls appropriate to reduce the airborne concentrations to the permissible level. Such controls shall be implemented as quickly as possible.

(4) Periodic tests shall be conducted for equipment leaks and for emissions of vinyl chloride which may result from work practices.

3. In 29 CFR Part 1910, § 1910.19 is revised to read as follows:

§ 1910.19 Special provisions for air contaminants.

(a) *Asbestos dust.* Section 1910.93a shall apply to the exposure of every employee to asbestos dust in every employment and place of employment covered by § 1910.12, § 1910.13, § 1910.14, § 1910.15, or § 1910.16, in lieu of any dif-

ferent standard on exposure to asbestos dust which would otherwise be applicable by virtue of any of those sections.

(b) *Vinyl chloride*. Section 1910.93a shall apply to the exposure of every employee to vinyl chloride in every employment and place of employment covered by § 1910.12, § 1910.13, § 1910.14, § 1910.15, or § 1910.16, in lieu of any different standard on exposure to vinyl chloride which would otherwise be applicable by virtue of any of those sections.

Effective date. These amendments shall become effective on April 5, 1974. (Secs. 4, 6, and 6, 84 Stat. 1592, 1596, 1599 (29 U.S.C. 653, 655, 657); Secretary of Labor's Order No. 12-71, 56 FR 8764.)

Signed at Washington, DC., this 2d day of April 1974.

JOHN STENDER,
Assistant Secretary of Labor.

[FR Doc. 74-7890 Filed 4-4-74; 8:45 am]

**This 32A—National Defense, Appendix
CHAPTER X—OFFICE OF OIL AND GAS,
DEPARTMENT OF THE INTERIOR
[Oil Import Reg. 1 (Rev. 5), Amdt. 65]**

**OIL IMPORT REG. 1—OIL IMPORT
REGULATIONS
Canadian Imports**

There appeared in the *FEDERAL REGISTER* on February 11, 1974 (39 FR 6198) a proposal to amend several sections of Oil Import Regulation 1 (Revision 5), as amended. Amendment 64 to Oil Import Regulation 1 (Revision 5) made the changes related to the proposed rulemaking for all sections except for sections 29 and 33, both of which pertain to Canadian imports. Publication of amendment of sections 29 and 33 was deferred until discussions could be held with the Canadian government to determine their export policy. Those discussions have been concluded. The Canadian government plans to continue to control exports along the lines of their present controls for at least through September 1974 at which time the method of control may be modified significantly. Accordingly, interested parties should note that, although sections 29 and 33 are written to provide allocations for the entire allocation period May 1, 1974 through April 30, 1975, licenses will only be issued initially for one half of the May 1, 1974 through April 30, 1975 allocation period and the licenses will only be valid for a six month period unless extended by the Director. This procedure will provide for needed flexibility should the Canadian export policy change to the extent that it is necessary to further modify the affected sections of the Oil Import Regulation to conform to such changes.

As stated in the preamble to Amendment 64 the three tier system proposed for making allocations under section 29 did not receive complete acceptance. Also, the proposed change to section 29 was predicated on a continuation of the

Federal mandatory crude allocation program in its present form. The Federal Energy Office has now proposed changes to that program. For these reasons it has been decided to retain the historical basis for making allocations of Canadian imports into Districts I-IV. The major change is a provision that requires that a person having an allocation of Canadian imports must process the entire volume of Canadian imports in his own facility. The changes to section 33 are strictly technical in nature with the exception of the licensing periods referred to above.

This amendment also amends section 3 to provide that entries for consumption of Canadian imports by pipeline under a license issued pursuant to these regulations may be made until midnight of May 15, following the end of the allocation period in which the license authorizing such imports from Canada was issued. This fifteen day overlap is necessary to prevent disruption of pipeline operations at the end of each allocation period.

This amendment 65 becomes effective on April 5, 1974.

WILLIAM A. VOGLY,
Acting Deputy Assistant
Secretary of the Interior.

Approved

WILLIAM E. SIMON,
Deputy Secretary of the Treasury.

A new paragraph (f) is added to section 3 to read as follows:

Sec. 3. Allocation periods.

(f) Notwithstanding the provisions of paragraphs (a) and (c) of this section

Sum of each eligible applicant's allocation of Canadian imports in 1975 pursuant to section 23 and section 31—expressed in barrels per day

Sum of all allocations of Canadian imports in 1975 pursuant to section 23 and section 31—expressed in barrels per day

X 762,000 barrels/day

(2) The Director shall issue before May 1, 1974 to each eligible applicant a license equal to one half of the allocation calculated pursuant to subparagraph (1) of this paragraph. Such licenses shall expire on October 31, 1974 unless extended by the Director. The Director shall issue before November 1, 1974 a second license to each eligible applicant equal to the remainder of the allocation calculated pursuant to subparagraph (1) of this paragraph. Such licenses shall expire on April 30, 1975.

(e) (1) Except as provided for in subparagraph (2) of this paragraph a person who imports Canadian imports must process all such imports in his own facility. For the purpose of this paragraph, blending by mechanical means does not constitute processing.

(2) (i) Canadian imports may be exchanged on a barrel for barrel basis for other Canadian imports but each person receiving crude oil or unfinished oils in the exchange must process the crude oil

entries for consumption of Canadian imports by pipeline may be made until midnight of May 15 following expiration of the allocation period in which a license authorizing such imports from Canada was issued.

Section 29 is amended in its entirety to read as follows:

Sec. 29. Canadian Imports—Districts I-IV.

(a) As used in this section, the term "Canadian imports" means imports from Canada of crude oil which has been produced in Canada and unfinished oils which have been derived from crude oil or natural gas produced in Canada and which have been transported into the United States by overland means or over waterways other than ocean waterways.

(b) To be eligible for an allocation of imports under this section, a person must have in Districts I-IV a facility capable of processing Canadian imports.

(c) The Director shall, in accordance with the terms of paragraph (d) (1) of this section, make allocations for the allocation period May 1, 1974 through April 30, 1975 of not to exceed 762,000 average barrels daily of Canadian imports into Districts I-IV.

(d) (1) The Director shall make allocations not subject to license fees of Canadian imports to eligible applicants who received allocations of such imports for the period January 1, 1973 through December 31, 1973, pursuant to section 23 or from the Oil Import Appeals Board under section 21, or from both. Each such applicant shall be entitled to an allocation of Canadian imports calculated in accordance with the following formula:

or unfinished oil received in his own facilities. Settlements, credits, monetary, or accounting adjustments reflecting the relative values of the oils involved in the exchange are permissible.

(ii) Canadian imports which are sold to meet the requirements of regulations published by the Federal Energy Office shall not be subject to the provisions of paragraph (e) of this section.

(f) If a person who receives an allocation of Canadian imports under this section fails to import the total quantity of imports specified in the allocation, or if he fails to process all such imports (or Canadian imports received in exchange for such imports) in his facilities before July 1, 1975, or if he fails to meet the requirement of paragraph (e) of this section, then any allocation of Canadian imports for Districts I-IV to which such person may otherwise be entitled for the first allocation period beginning after April 30, 1975 shall be reduced by the Director by the amount of Canadian im-