

JUN 30 1972

Stepan Chemical Company
Attention: Mr. R. Richard Riso
Ass't General Manager
Maywood Division
100 W. Hunter Ave.
Maywood, New Jersey 07606

License No. 29-13725-01

Gentlemen:

This refers to the inspection conducted by Mr. E. Epstein of this office on June 16, 1972, of activities authorized by AEC License No. 29-13725-01, and to the discussion of our findings held by Mr. Epstein with you and your staff at the conclusion of the inspection.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, measurements made by our inspector, and observations by our inspector.

During this inspection, it was found that certain of your activities appeared to be in noncompliance with AEC requirements. The items and references to the pertinent requirements are listed in the enclosure to this letter. Please provide us within 20 days, in writing, with your comments concerning these items, any steps which have been or will be taken to correct them, any steps that have been or will be taken to prevent recurrence, and the date all corrective actions or preventive measures were or will be completed.

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Very truly yours,

James P. O'Reilly
Director

Enclosure:
Description of Noncompliance Items

bcc: G. W. Roy, RO (2)
H. D. Thornburg, RO

OFFICE ▶	RO			R. H. Engelken, RO	
SURNAME ▶	Epstein/dg <i>EE</i>	Nelson <i>for</i>	O'Reilly <i>[Signature]</i>	PDR	
DATE ▶	6/29/72	6/29/72		NSIC	
				RO Files	

ENCLOSURE

DESCRIPTION OF NONCOMPLIANCE ITEMS

Stepan Chemical Company
Maywood Division
100 W. Hunter Avenue
Maywood, New Jersey
License No. 29-13725-01

Certain activities under your license appear to be in noncompliance with AEC regulations as indicated below:

1. 10 CFR 20.203(e)(1), "Caution signs, labels, signals and controls" requires that rooms or areas in which byproduct material is used or stored in an amount exceeding ten times the quantity of such material specified in Appendix C to 10 CFR 20 be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words, "Caution - Radioactive Material".

Contrary to this requirement, the general storeroom and the refrigerator in this room, wherein 387 millicuries of tritiated protein was stored, was not posted. The quantity of tritium stored exceeded 10 millicuries (ten times its Appendix C limit).

2. 10 CFR 20.207, "Storage of licensed materials, requires that licensed materials, stored in an unrestricted area, be secured against unauthorized removal from the place of storage.

Contrary to this requirement, 387 millicuries of tritium, stored in an unlocked refrigerator located in an unrestricted general storeroom, was not secured against unauthorized removal. This room, not controlled by lock and key or surveillance, was accessible to visitors, and employees.

3. 10 CFR 20.401(b), "Records of surveys, radiation monitoring and disposal", requires that certain specified records be maintained. One of these records is a record of disposals made under 10 CFR 20.303, "Disposal by release into sanitary sewerage systems."

Contrary to this requirement records were not maintained of the disposal of one millicurie of tritium to the sanitary sewerage system twice monthly for the past twelve months.

4. License Condition 8(a), limits the amount of tritium which you may possess at any one time to 100 millicuries.

Contrary to this requirement, the amount of tritium on hand as of the day of the inspection was 387 millicuries, as indicated by an inventory conducted at the request of our inspector.