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726824

Idaho Falls, Idaho  
September 21, 1965

Radioactive Incident  
Contract No. C-3357

RECEIVED	
SEP 22	
TO: [unclear]	
ROUTE	INITIAL

MEMORANDUM

To: L. L. Leedy  
From: A. A. Anselmo:lj

Original signed by  
A. A. ANSELMO

REPOSITORY INEL  
OFFICE OF CHIEF

COLLECTION COUNSEL SUBJECT FILES  
23399, UTCB CKA-674E

BOX No. FILE: SAFETY-16 IODINE RADIATION EXPERIMENT  
RADIOACTIVE INCIDENT

FOLDER CONTRACT No. C-3357

Dear Langdon:

Reference is made to our Contract No. C-3357 to the Tracerlab, Inc., Waltham, Massachusetts, for ten (10) curies of methyl iodide-131 which was received at this installation on September 10, 1965.

This shipment was picked up at the Western Airlines Terminal in Idaho Falls, Idaho, on September 10, 1965, arriving on Western Airlines Flight 12 at 2:15 PM, by AEC Security and delivered directly to Rex Purcell.

On Monday, September 13, 1965, Mr. Cathey was notified by Mr. Jack Smith that contamination was detected when the shipment was opened by AEC. Mr. Cathey then called Clyde Hawley to determine the extent and cause of contamination. Mr. Hawley was unable to report the extent of contamination, but indicated that the material was sent to the CPP Hot Cell for further examination.

Tuesday, September 14, 1965, Mr. Keith Bodden called and indicated that the AEC would make an official report to the ICC and CAA when the details were known. On Wednesday, Mr. Clyde Hawley again called and indicated that the report had been deligated to him and that when a report was submitted to the ICC and CAA, we would be furnished a copy for our records.

In the meantime, Mr. Ginkle had appointed a committee to investigate this incident. The committee would be headed by Mr. Jim Pollock.

Mr. Pollock had contacted me at home to clarify what took place during my conversations with Tracerlab prior to the shipment and after the shipment was made.

We are required by AIB-8.10 Para. 5.10 to report to the Bureau of Explosives in New York, and the ICC in Boise, Idaho, any radioactive incident or incoming shipments received in an unsatisfactory condition. Such report will be sent to the Director, ID Health and Safety Division, for review and approval prior to transmittal.

This is to advise you that no action has been taken by this office at this time and no action can be taken until an official report is received from

1185673

L. L. Leedy  
September 21, 1965  
Page 2

the Commission. Of course, if the Commission submits the report, then we will not be required to duplicate it.

During your absence last week, Mr. Fisher was contacted and brought up-to-date on all the information available in this office.

cc: H. H. Ferguson ←  
J. A. Smith  
L. P. Smith

1185674



IN REPLY REFER TO:  
OCC:FDB

RECEIVED	
ATOMIC ENERGY COMMISSION	
SEP 2 1965	
To: H. H. [unclear]	
ROUTE	INITIAL

PH  
 PETROLEUM CO.  
 ATOMIC ENERGY DIVISION  
 RECEIVED  
 SEP 24 1965  
 L. L. LEEDY

SEP 23 1965

*copies to  
 LPS-AAA  
 144F  
 2 9/24/65*

Phillips Petroleum Company  
 Atomic Energy Division  
 P.O. Box 2067  
 Idaho Falls, Idaho

Attention: Mr. L. L. Leedy

Subject: PURCHASE ORDER NO. C 3357 - METHYL IODIDE PROCUREMENT

Dear Mr. Leedy:

It is requested that the shipment of methyl iodide received on United Air Lines Prepaid Air Bill 16 FWR 5710842 and purchased under Purchase Order No. C 3357 be rejected for reasons of failure to conform to the purchase order.

The shipment did not conform to the requirements of the purchase order for failure to contain 10 curies radioisotope methyl iodide 131 as required and it was not adequately contained and packaged.

Mr. Hames of our Office of Chief Counsel has previously discussed with you a proposed teletype to Tracerlab.

Very truly yours,

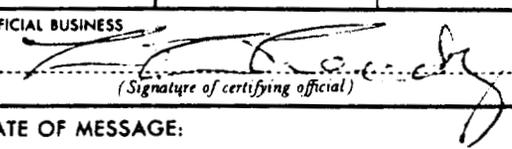
*Chogem, acting*  
 W. A. Erickson, Director  
 Contract Administration Division

cc: Mr. J. P. Lyon

*Revised  
 with J. P. Lyon - OK  
 2 9/24*

# U.S. ATOMIC ENERGY COMMISSION OUTGOING TELECOMMUNICATION MESSAGE

(See reverse side for instructions)

PRECEDENCE DESIGNATION (Check appropriate boxes. Average transmission time exclusive of messenger services is shown.)			TYPE OF MESSAGE (Check one)		FOR COMMUNICATION CENTER USE	
ACTION: <input type="checkbox"/> DEFERRED	<input type="checkbox"/> ROUTINE	<input type="checkbox"/> PRIORITY	<input checked="" type="checkbox"/> SINGLE ADDRESS	MESSAGE IDENTIFICATION		
INFO: <input type="checkbox"/> (2-4 Hrs.)	<input type="checkbox"/> (1-1 1/2 Hrs.)	<input type="checkbox"/> (1/2-1 Hr.)	<input type="checkbox"/> MULTIPLE ADDRESS	NR:	DTG:	Z
FROM: PHILLIPS PETROLEUM COMPANY P. O. BOX 2067 IDAHO FALLS, IDAHO			OFFICIAL BUSINESS  (Signature of certifying official)		DATE OF MESSAGE:	
TO: TRACERLAB, INC. 1601 TRAPELO ROAD WALTHAM 54, MASSACHUSETTS			COMMUNICATION CENTER ROUTING			

FOR JOSEPH ROSENBERG, MANAGER, TECHNICAL PRODUCTS DIVISION, FROM

- A. IN ACCORDANCE WITH THE GENERAL PROVISION (9) IN FORM AED-171 INCORPORATED IN PURCHASE ORDER NO. C 3357 BY REFERENCE, PHILLIPS PETROLEUM COMPANY HEREBY REJECTS THE SHIPMENT OF METHYL IODIDE 131 SHIPPED BY AIRFREIGHT UNITED AIR LINES PREPAID AIR BILL 16-FWR 5710842 FOR FAILURE OF THE SHIPMENT TO CONFORM TO THE REQUIREMENTS OF PURCHASE ORDER C 3357. IN VIEW OF THE FACT IT WAS MUTUALLY UNDERSTOOD THAT TIME OF DELIVERY WAS OF THE ESSENCE, NO CORRECTION OR REDELIVERY OF SHIPMENT IS REQUIRED WITHIN THE PURVIEW OF SECTION 9 OF THE GENERAL PROVISIONS.
- B. MORE PARTICULARLY BUT WITHOUT PREJUDICE TO OTHER CLAIMS OF DEFECTS, THE SHIPMENT DID NOT CONFORM TO THE REQUIREMENTS OF THE PURCHASE ORDER FOR THE FOLLOWING REASONS:
1. THE SHIPMENT AS RECEIVED DID NOT CONTAIN 10 CURIES RADIOISOTOPE; METHYL IODIDE 131 AS REQUIRED BY THE CONTRACT.

**BE BRIEF—ELIMINATE UNNECESSARY WORDS**

ORIGINATOR:	INSERT CLASSIFICATION (If Classified)	RESTRICTED DATA OR ESPIONAGE STAMP, IF REQUIRED

1185676

INSERT CLASSIFICATION (IF CLASSIFIED)

## U. S. ATOMIC ENERGY COMMISSION

## OUTGOING TELECOMMUNICATION MESSAGE—CONTINUATION

TO: JOSEPH ROSENBERG

PAGE NO.: 2

DATE OF MESSAGE:

2. THE SHIPMENT WAS NOT ADEQUATELY CONTAINED AND PACKAGED.
- C. IN ACCORDANCE WITH GENERAL PROVISIONS AND OTHER TERMS OF THE PURCHASE ORDER THE RISK OF LOSS REMAINED ON THE SUPPLIER AT ALL TIMES.
- D. THE METHYL IODIDE CONTAINERS AWAIT YOUR INSPECTION AT PHILLIPS PETROLEUM COMPANY, NATIONAL REACTOR TESTING STATION, IDAHO FALLS, IDAHO. IF A DIRECTIVE FROM YOU WITH RESPECT TO DISPOSITION OF SAID CONTAINERS IS NOT RECEIVED WITHIN A REASONABLE TIME, THE CONTAINERS WILL BE CLEANED AND RETURNED. END REF

INSERT CLASSIFICATION (IF CLASSIFIED)

☆ GPO : 1952—O—906790

1185677

*wave*  
*Bartz, MSC*  
*9/15*  
*HFA*

\_\_\_\_\_  
(Date)

Methyl Iodide Skin  
Penetration Experiment

Dear Mr.

You have indicated your willingness to participate in the forthcoming iodine skin penetration experiment. This experiment will involve standing in a cloud of methyl radioiodide while being equipped with a breathing apparatus such as a Scott Air Pak. The period of exposure will not exceed 30 minutes. The estimated thyroid dose to the AEC volunteers, who will not be equipped with breathing apparatus, is 30 mrem. The skin penetration dose to the thyroid should not exceed this value. Based on current administrative controls, this is one-twelfth (1/12) of a day's exposure. A whole body count will be made to determine the amount of radioiodine deposited in the thyroid.

The data from this experiment should help determine what hazards are presented by a radioiodine atmosphere from the penetration of iodine through the skin to the thyroid. Participation in this experiment is to be considered within the scope of your employment with Phillips Petroleum Company's Atomic Energy Division.

Please read and sign the following statement signifying your voluntary acceptance of any risk involved in your participation in this experiment.

\_\_\_\_\_  
(Signature)

I, \_\_\_\_\_, do hereby acknowledge that I have volunteered as an employee of Phillips Petroleum Company to participate in scientific investigations to be jointly conducted by AEC's Idaho Operations Office and by Phillips' Atomic Energy Division. I realize that my participation in the experiment may result in my receiving internally a small quantity or quantities of radioisotopes which have been estimated by the ID Medical Branch to be less than 10% of the radiation guide limits established for occupational radiation exposure. I understand that a documented record of these investigations will be on file with <sup>both</sup> the ID Health and Safety Division <sup>files</sup> as part of my occupational exposure and/or medical record.

Witnesses:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

Administration

Nuclide Taken	Quantity $\mu$ c	Date Taken	T 1/2 eff. days	Administration		
				Chemical Form	Physical Form	Route

1185678

\_\_\_\_\_  
Chief, Analytical Chem. Branch  
Health & Safety Division  
IDO-USAEC

\_\_\_\_\_  
Date

\_\_\_\_\_  
Chief, Medical Branch  
Health & Safety Division  
IDO-USAEC

\_\_\_\_\_  
Date

R: ~~WHS~~ WS

This is the form we found  
a few weeks part of the

I have not had opportunity to discuss  
the above from legal viewpoint

METHYL IODIDE SKIN PENETRATION EXPERIMENT

File CFG 10

RECEIVED  
SEP 10 1965

You have indicated your willingness to participate in the forth coming iodine skin penetration experiment. This experiment will involve standing in a cloud of methyl radioiodide while being equipped with a breathing apparatus such as a Scott Air Pak. The period of exposure will not exceed 30 minutes. The estimated thyroid dose to the AEC volunteers, who will not be equipped with breathing apparatus, is 30 mrem. The skin penetration dose to the thyroid should certainly not exceed this value. Based on current administrative controls, this is one-twelfth (1/12) of a days exposure. A whole body count will be made to determine the amount of radioiodine deposited in the thyroid.

The data from this experiment should help determine what hazards are presented by a radioiodine atmosphere from the penetration of iodine through the skin to the thyroid. In as much as this should be an aid to future health physics problems, participation in this experiment is to be considered within the scope of your employment with the AEC, Phillips Petroleum Company's Atomic Energy Division.

Please read and sign the following statement signifying that your voluntarily accept any risk involved in your participation in this experiment.

I, \_\_\_\_\_, do hereby acknowledge that I have volunteered as an employee of AEC, Phillips Petroleum Company to participate in a scientific investigation promoted by Phillips Petroleum Company. I realize the study will require me to receive internally a small quantity or quantities of radioisotopes which have been estimated by the investigators and the ID Medical Branch to be less than 10% of the radiation guide limits established for occupational radiation exposure. I also realize that a documented record of these investigations will be on file with the ID Health and Safety Division as part of my occupational exposure record and/or medical record.

W.M.?

for what purpose?

\_\_\_\_\_  
Signature Date

Witnesses:

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Signature

1185679

Nuclide Taken	Quantity, $\mu\text{c.}$	Date Taken	T 1/2 eff. days	Administration		
				Chemical Form	Physical Form	Route

Approved:

W.M.

\_\_\_\_\_  
Chief, Analytical Chem. Branch  
Health & Safety Division  
IDO-USAEC

\_\_\_\_\_  
Date

\_\_\_\_\_  
Chief, Medical Branch  
Health & Safety Division  
IDO-USAEC

\_\_\_\_\_  
Date

W.M.